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STATE OF CALIFORNIA
The Resources Agency



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BULLETIN No. 130-71

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HYDROLOGIC DATA: 1971

Volume III: CENTRAL COASTAL AREA

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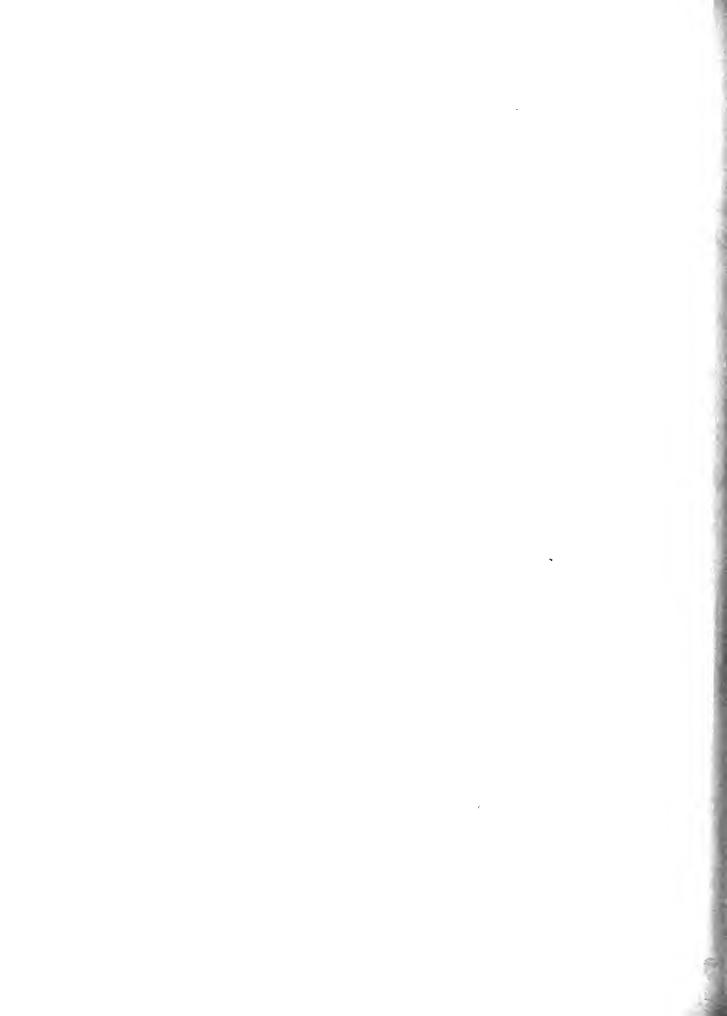
NORMAN B. LIVERMORE, JR. Secretary for Resources The Resources Agency

RONALD REAGAN
Governor
State of California

WILLIAM R. GIANELLI

Director

Department of Water Resources



# STATE OF CALIFORNIA The Resources Agency

### Department of Water Resources

BULLETIN No. 130-71

# HYDROLOGIC DATA: 1971

Volume III: CENTRAL COASTAL AREA

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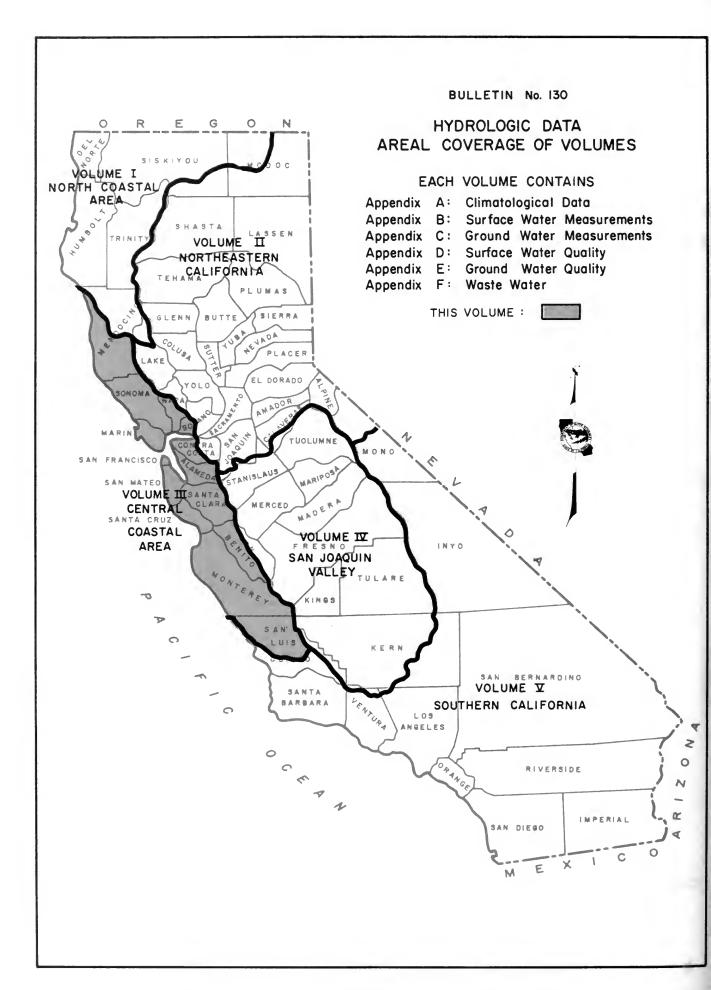
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Director

Department of Water Resources



### FOREWORD

The hydrologic data programs of the Department of Water

Resources supplement the data collection activities of other agencies

and help satisfy needs of these agencies for data on the quality and

quantity of water in the State. Bulletin No. 130-71 presents accurate,

comprehensive, and timely hydrologic data which provide a more complete

knowledge of the factors affecting our environment and are prerequisites

for effective planning, design, construction, and operation of water

facilities.

The Bulletin No. 130 series is published annually in five volumes. Each volume presents hydrologic data for one of five reporting areas of the State. These areas are delineated on the map on the opposite page.

William R. Gianelli, Director Department of Water Resources

The Resources Agency State of California October 25, 1972

### METRIC CONVERSION TABLE

ENGLISH UNIT	EQUIVALENT METRIC UNIT
l Inch (in.)	2.54 Centimeters
l Foot (ft.)	0.3048 Meters
l Mile (mi.)	1.609 Kilometers
1 Acre	0.405 Hectares
1 Square mile (sq.mi.)	2.590 Square kilometers
1 U. S. gallon (gal.)	3.785 Liters
1 Acre-foot (ac.ft.)	1,233.5 Cubic meters
1 U. S. gallon per minute (gpm)	0.0631 Liters per second
1 Cubic foot per second (cfs)	1.7 Cubic meters per minute
1 Part per million (ppm)	1 Milligram per liter (mg/1)
l Part per billion (ppb)	l Microgram per liter (ug/l)
1 Part per trillion (ppt)	l Nanogram per liter (ng/l)
l Equivalent part per million (epm)	l Milliequivalent per liter (me/l)
Degrees Fahrenheit (°F)	5/9 (°F-32) Degrees Celsius (°C)

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### ACKNOWLEDGMENTS

In the preparation of this report, valuable assistance and contributions were received from many public and private agencies. This cooperation is gratefully acknowledged. Special mention is made of the following agencies:

### Federal

National Weather Service

U. S. Army, Corps of Engineers

U. S. Army, Post Engineer, Fort Ord

U. S. Bureau of Reclamation

U. S. Coast Guard

U. S. Geological Survey

U. S. Soil Conservation Service

### State

Department of Public Health
Department of Veterans Affairs
Division of Highways
Division of Forestry
Regional Water Quality Control
Board, Central Coast Region,
North Coast Region, and San
Francisco Bay Region
University of California,
Agricultural Extension Service
Water Resources Control Board

### Local

Alameda County Flood Control and Water Conservation District Alameda County Water District City of San Francisco City of Vallejo East Bay Municipal Utility District Marin County Mendocino County Monterey County Flood Control and Water Conservation District Napa County San Benito County San Luis Obispo County Flood Control and Water Conservation District Santa Clara County Flood Control and Water District Santa Cruz County Solano Irrigation District Sonoma County Flood Control and Water Conservation District South Santa Clara Valley Water Conservation District

# State of California The Resources Agency DEPARTMENT OF WATER RESOURCES

RONALD REAGAN, Governor, State of California
NORMAN B. LIVERMORE, Jr., Secretary for Resources
WILLIAM R. GIANELLI, Director, Department of Water Resources
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### ABSTRACT

Report contains tables showing data on surface water measurements; ground water levels; surface and ground water quality; and waste water in the Central Coastal Area for the 1970-71 water year. Figures show the location of ground water basins; the average depth to water in wells; the location of surface water measurement and surface water quality stations; and major hydrographic area and subunit boundaries.

Appendix A: CLIMATOLOGICAL DATA



#### INTRODUCTION

The Department of Water Resources has substantially reduced its collection and publication of climatological data in recent years. California's primary network of precipitation data which was formerly printed in this bulletin is available in "Climatological Data-California", "Hourly Precipitation Data-California", and "Storage Gage Precipitation Data in Western United States". These National Weather Service publications are available from:

Superintendent of Documents Government Printing Office Washington, D. C. 20402

The primary network of precipitation stations has been found to be inadequate for operating local water supply and small-scale flood control projects. Local agencies within the area covered by this report have responded to this need by establishing their own supplemental rain gage networks. Some of these agencies are:

U. S. Department of The Army, Corps of Engineers San Francisco District

Alameda County Flood Control and Water Conservation District

Contra Costa County Flood Control and Water District

Marin Municipal Water District

Marin County Department of Public Works

Monterey County

San Benito County

San Francisco County

San Luis Obispo County Flood Control and Water Conservation District

Santa Clara County Flood Control and Water District

Santa Cruz County Department of Public Works

Sonoma County Water Agency



Appendix B: SURFACE WATER MEASUREMENTS



### INTRODUCTION

This appendix contains surface water data for the period from October 1, 1970, through September 30, 1971. These data consist of the amounts of water imported to the report area; daily mean gage heights; daily maximum and minimum tides; and corrections and revisions to previously published reports of surface water data. Station locations are shown on Figure D-1, sheet 2, page 42.

In addition to data collected and published by the Department of Water Resources in this appendix, the U. S. Geological Survey collects and publishes data on many additional gaging stations for the same report area. This work is done under a federal-state cooperative contract or through local cooperative arrangements with other local or governmental agencies. The data published in the following reports, together with this report, present a comprehensive analysis of water resources for the area:

- 1. "Water Resources Data for California, Part 1: Surface Water Records, Volume I: Colorado River Basin, Southern Great Basin, and Pacific Slope Basins excluding Central Valley". U. S. Geological Survey.
- 2. Bulletin No. 120, "Water Conditions in California, Fall Issue". Department of Water Resources.
- 3. Bulletin No. 157, "Index to Stream Gaging Stations in and Adjacent to California, 1970". Department of Water Resources. This index contains the period of record -- with the number of years missing -- and more information for stations in the report area. The index also identifies the agency from which a particular record may be obtained.

TABLE B-1 SURFACE WATER IMPORTS TO THE CENTRAL COASTAL AREA

			-		:	1971 Wate	er Year				-		Total
Import	October	November	December	January	February	March	April	May	June	July	August	September	lotal
,	Ī												
CITY OF VALLEJO FROM CACHE SLOUGH a													
Total acre-feet	1,279	648	1,099	1,179	849	1,115	1,341	1,433	1,519	1,563	1,504	1,480	15,009
Average cubic feet per second	21	11	18	19	15	18	23	23	26	25	24	25	21
Monthly quantities in percent of seasonal	8.5	4.3	7.3	7.9	5.7	7.4	9.0	9.5	10.1	10.4	10.0	9.9	
CONTRA COSTA CANAL b													
Total acre-feet *	7,124	4,663	3,868	3,902	3,616	4,378	4,724	5,974	8,420	10,150	11,078	7,587	75,484
Average cubic feet per second *	116	78	63	63	65	71	79	97	142	165	180	128	104
Monthly quantities in percent of seasonal	9.4	6.2	5.1	5.2	4.8	5.8	6.2	7.9	11.2	13.4	14.7	10.1	
HETCH HETCHY AQUEDUCT c													
Total acre-feet	21,579	15,955	15,653	11,058	10,457	9,485	18,773	22,237	21,858	22,877	22,814	21,999	214,745
Average cubic feet per second	351	268	255	180	188	154	315	362	367	372	371	370	296
Monthly quantities in percent of seasonal	10.0	7.4	7.3	5.1	4.9	4.4	8.8	10.4	10.2	10.7	10.6	10.2	
MOKELUMNE RIVER AQUEDUCT d													
Total acre-feet	18,651	17,875	18,489	16,719	13,318	17,456	17,934	18,598	18,270	19,146	19,118	18,463	214,037
Average cubic feet per second	303	300	301	272	240	284	301	302	307	311	311	310	296
Monthly quantities in percent of seasonal	8.7	8.4	8.6	7.8	6.2	8.2	8.4	8.7	8.5	9.0	8.9	8.6	
POTTER VALLEY POWERHOUSE FROM EEL RIVER e													
Total acre-feet	17,440	16,120	18,890	18,770	17,170	18,850	16,950	18,790	15,010	6,280	4,000	8,070	176,340
Average cubic feet per second	284	271	307	305	309	307	285	306	252	102	65	136	243
Monthly quantities in percent of seasonal	9.9	9.1	10.7	10.6	9.7	10.7	9.6	10.7	8.5	3.6	2.3	4.6	
PUTAH SOUTH CANAL b													
Total acre-feet *	23,222	8,114	1,866	1,989	2,192	5,833	16,430	26,222	32,847	37,462	29,895	30,098	216,170
Average cubic feet per second *	378	136	30	32	39	95	276	426	552	609	486	506	299
Monthly quantities in percent of seasonal	10.7	3.8	0.9	0.9	1.0	2.7	7.6	12.2	15.2	17.3	13.8	13.9	
SOUTH BAY AQUEDUCT													
Total acre-feet	4,388	3,513	5,071	5,228	6,338	7,805	14,919	12,679	11,883~	13,441	14,806	7,353	107,424
Average cubic feet per second	71	59	82	85	114	127	251	206	200	219	241	124	148
Monthly quantities in percent of seasonal	4.1	3.3	4.7	4.8	5.9	7.3	13.9	11.8	11.1	12.5	13.8	6.8	

a Data furnished by City of Vallejo.

b Data furnished by U. S. Bureau of Reclamation.

c Data furnished by City of San Francisco.

d Data furnished by East Bay Municipal Utility District.

e Data furnished by U. S. Geological Survey.

<sup>\*</sup> Amounts are total diversion into the canal; an unknown portion of this is imported to the Central Coastal Area.

### TABLE B-2 DAILY MEAN GAGE HEIGHT

(IN FEET)

	WATER YEAR	STATION NO.	STATION NAME	
ſ	1971	E31400	RECTOR RESERVOIR NEAR YOUNTVILLE	

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	350.05	349.71	361.87	370.34	370.18	370.10	370.13	370.08	368.32	364.45	360.00	355.82	1
2	350.00	349.72	364.60	370.28	370.15	370.10	370.12	370.08	368.21	364.31	359.85	355.69	2
3	349.93	349.93	367.88	370.26 370.25	370.14 370.14	370.11 370.11	370.10 370.09	370.09 370.09	368.09 367.92	364.18 364.02	359.74 359.60	355.58 355.43	3
4 5	349.90 349.87	350.08 350.17	370.68 370.43	370.23	370.14	370.11	370.07	370.09	367.80	363.89	359.45	355.29	4
•	349.07	330.17	370.43	370.23	370.14	3,0.10	370.07	370.00	307.00	303.07	337.43	333.27	5
6	349.85	350.37	370.32	370.23	370.14	370.10	370.09	370.07	367.69	363.75	359.31	355.14	6
7	349.78	350.43	370.31	370.23	370.15	370.10	370.10	370.05	367.55	363.60	359.27	355.02	7
8	349.74	350.47	370.32	370.23	370.15	370.09	370.13	370.06	367.43	363.47	359.02	354.92	8
9	349.68	350.49	370.27	370.23	370.15	370.10	370.11	370.05	367.32	363.33	358.87	354.88	9
10	349.65	350.53	370.25	370.22	370.15	370.10	370.11	370.04	367.20	363.20	358.74	354.81	10
ıı	349.60	350.57	370.24	370.26	370.14	370.11	370.12	370.03	367.06	363.04	358,60	354.78	11
12	349.60	350.58	370.23	370.27	370.14	370.37	370.12	370.03	366.95	362.90	358.50	354.76	12
13	349.57	350.59	370.22	370.26	370.13	370.23	370.13	370.02	366.85	362.78	358.38	354.69	13
14	349.57	350.61	370.21	370.26	370.13	370.22	370.14	369.99	366.73	362.63	358.25	354.64	14
15	349.56	350.63	370.53	370.25	370.13	370.21	370.15	369.97	366.56	362.49	358.12	354.59	15
	010 50	250.66	270 50	270 22	270 12	370.20	370.15	369.96	366.44	362.33	357.98	354.52	
16	349.53	350.66	370.50 370.42	370.32 370.33	370.13 370.12	370.20	370.15	369.88	366.26	362.33	357.84	354.48	16
17 18	349.53 349.54	350.67 350.69	370.42	370.33	370.12	370.16	370.16	369.78	366.07	362.06	357.73	354.43	18
19	349.53	350.68	370.38	370.33	370.12	370.16	370.12	369.69	365.98	361.91	357.57	354.41	19
20	349.57	350.69	370.75	370.30	370.11	370.16	370.11	369.57	365.91	361.78	357.44	354.35	20
10	347.37	330.07	3,0.73	3,0.30	3,,,,,	3,0,10							
21	349.61	350.74	370.48	370.28	370.12	370.16	370.10	369.43	365.79	361.64	357.30	354.31	21
22	349.62	350.76	370.38	370.28	370.12	370.15	370.11	369.34	365.64	361.47	357.18	354.28	22
23	349.67	350.78	370.34	370.26	370.12	370.15	370.09	369.24	365.53	361.32	357.05	354.25	23
24	349.67	350.85	370.30	370.25	370.12	370.15	370.09	369.13	365.40	361.17	356.92	354.14	24
25	359.69	350.91	370.29	370.24	370.11	370.21	370.09	369.01	365.27	361.02	356.77	354.01	25
26	349.69	350.96	370.26	370.23	370.11	370.34	370.09	368.90	365.12	360.87	356.66	353.88	26
27	349.69	353.20	370.26	370.23	370.11	370.25	370.09	368.81	364.99	360.74	356.54	353.77	27
28	349.68	357.40	370.34	370.22	370.11	370.20	370.09	368.72	364.88	360.59	356.40	353.63	28
29	349.68	359.41	370.38	370.22		370,20	370.09	368.63	364.73	360.43	356.26	353.55	29
30	349.69	360.77	370.33	370.21		370.14	370.08	368.52	364.60	360.30	356.13	353.44	30
31	349.71		370.31	370.20		370.14		368.42		360.16	356.00		31
		i l								1			1

### MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E - ESTIMATED

NR - NO RECORD

NF - NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
12-4-70	1100	371.09									

$\subset$	LOCATION			MAXIMUM DISCHARGE			PERIOD C	PERIOD OF RECORD			DATUM OF GAGE			
LATITUDE		LONGITUDE	1/4 SEC. T. & R.	OF RECORD			DISCHARGE	GAGE HEIGHT	PERIOD		ZERO	REF.		
L-^		LONGITUDE	M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	ONLY	FROM	то	GAGE	DATUM		
38	26 24	122 20 36	SE 19 7N 4W				1	MAY 1948-DATE	5-48		0.00	USCGS		

Rector Reservoir is located on Rector Creek about 3 miles northeast of Yountville. Gaging station is located on the outlet tower of the reservoir. Elevation of reservoir floor is 250 feet. Spillway elevation is 370 feet.

DATE	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	DATE
1	5.70 2.14	6.05 1.39	7.30 4.53	5.74 1.54	6.12 2.25	5.47 1.03	5.75 1.30	5.41 1.26	5.17 1.60	5.94 2.52	6.34	6.50 1.59	ı
2	5.97 2.20	6.20 3.58	7.05 5.07	5.78 1.75	6.20 1.97	5.25 0.92	5.34 1.23	5.00 1.25	5.53 2.23	6.07 2.21	6.55 1.86	5.07 1.75	2
3	6.20 2.25	6.21 1.53	6.52 2.21	5.22 1.27	5.99 1.62	5.23 0.93	5.18 1.34	5.20 1.52	5.78 2.17	6.29 1.94	6.70 1.83	6.28 1.57	3
4	6.16 3.47	5.96 1.74	6.00 2.43	5.59 1.64	5.93 1.45	5.55 1.16	5.04 1.40	5.20 1.57	5.90 1.85	6.46 1.78	4.93 1.72	6.30 1.75	4
5	6.31	5.80 1.67	5.74 1.92	5.94 1.70	5.97 1.41	5.01 0.92	5.25 1.79	5.57 2.05	4.43 1.64	4.80 1.73	6.59 1.63	6.33 2.21	5
6	6.16 2.12	5.51 1.60	6.00 2.11	5.96 1.43	6.08 1.47	4.97 0.92	5.26 1.81	5.93 2.16	6.04 1.55	6.70 1.72	6.64 1.68	6.15 2.27	6
7	5.68 1.71	5.19 1.62	6.45 2.53	6.21 1.39	6.05 1.38	5.23 0.97	5.44 1.96	5.83 1.36	6.31	6.91 1.78	6.50 1.69	6.09 2.02	7
8	5.72 1.33	5.25 1.55	6.92 2.89	6.41 1.48	5.99 1.44	5.28 1.09	5.34 2.06	6.38 1.48	6.53 1.54	6.78 1.58	6.19 1.69	6.41 2.48	8
9	5.96 1.46	5.62 1.85	7.05 2.38	6.61 1.61	5.56 1.15	5.23 1.23	5.42 1.95	5.88 1.46	6.67 1.61	6.68 1.47	5.80 1.73	6.55 2.12	9
10	5.90 1.85	5.93 1.91	6.83 2.07	6.71 1.81	5.44 1.27	5.13 1.34	5.74 1.79	6.12 1.58	6.71 1.53	6.35 1.36	5.93 1.96	6.50 2.06	10
11	5.47 1.94	6.23 1.84	6.76 1.94	6.76 1.93	5.28 1.50	5.05 1.59	5.64 1.57	6.43 1.70	6.52 1.47	6.10 1.37	6.31 2.54	6.26 1.93	11
12	5.88 2.16	6.21 1.44	6.86 2.03	6.59 2.17	5.04 1.58	5.95 2.27	5.72 1.47	6.41 1.52	6.34 1.42	5.78 1.46	6.41 2.50	6.12 1.72	12
13	6.03 2.35	6.20 1.26	6.92 2.04	6.50 2.03	5.09 1.91	5.40	5.94 1.64	6.24 1.37	5.91 1.31	5.70 1.62	6.50 2.20	6.19 1.65	13
14	6.26 2.13	6.20 1.29	6.62 1.90	5.94 1.88	5.32 2.35	5.18 1.74	6.06 1.57	6.11 1.29	5.39 1.15	6.10 2.04	6.53 2.02	6.21 1.82	14
15	6.30 1.90	6.28 1.36	6.38 4.06	5.51 3.47	5.48 2.42	5.15 1.41	6.03 1.51	5.94 1.34	5.54 1.33	6.38 2.55	6.51 1.85	5.44 1.92	15
16	6.36 1.78	6.04 3.57	6.56 2.20	5.24 1.82	5.47 2.31	5.25 1.46	5.97 1.66	5.15 0.82	5.96 1.84	6.62 2.30	6.47 1.73	6.23 2.14	16
17	6.34 3.42	5.66 1.32	5.95 2.32	5.24 1.91	5.81 2.28	5.40 1.29	5.93 1.62	4.92 0.83	6.43 2.31	6.58 2.10	5.02 1.72	6.39 2.43	17
18	6.15 1.70	5.37 1.29	5.88 2.21	5.38 2.24	5.37 1.61	5.31 1.21	5.14 1.07	5.34 1.20	6.53 2.07	6.73 1.70	6.43 1.74	6.21 2.44	18
19	6.12 1.58	4.93 1.39	5.76 2.15	5.60 2.57	5.61 1.22	5.32 1.25	5.17 1.36	5.76 1.56	6.61 1.76	5.03 1.70	6.49 1.99	5.88 2.35	19
20	5.75 1.72	5.00 1.41	5.91 2.49	5.83 2.26	5.42 1.01	5.58 1.32	5.43 1.59	6.33 2.16	4.77 1.58	6.85 1.84	6.25 1.84	5.95 2.60	20
21	5.51 1.58	5.28 1.75	6.42 3.46	5.97 2.01	5.67 1.01	5.55 1.23	5.07 1.44	4.69	6.69 ¬	6.85 1.88	6.01 1.85	5.97 2.38	21
22	5.04 1.84	5.43 1.97	6.07 2.61	6.20 1.96	6.07 1.37	5.65 1.24	5.47 1.71	6.35 1.61	6.76 1.53	6.70 1.84	5.81 1.94	5.90 2.21	22
23	5.14 1.55	5.40 2.08	5.82 2.13	6.46 1.88	6.10 1.23	5.79 1.38	5.78 1.68	6.73 1.72	6.75 1.51	6.51 1.84	5.52 2.04	5.92 3.26	23
24	5.06 1.70	5.78 2.17	6.21 1.93	6.72 1.85	5.98 1.36	5.76 1.53	6.13 1.45	6.86 1.57	6.61 1.51	6.33 1.82	5.66 2.32	6.14 2.18	24
25	5.15 1.74	6.30 2.34	6.19 1.66	6.65 1.68	5.38 0.93	5.74 1.87	6.28 1.34	6.78 1.49	6.33	6.02 1.90	5.92 2.52	5.98 2.32	25
26	4.94 1.78	6.58 2.12	6.53 1.72	6.51 1.63	4.80 0.98	6.09 2.24	6.63 1.38	6.76 1.40	5.99 1.51	5.61 1.99	6.09 2.72	5.87 1.98	26
27	4.85 1.44	6.73 2.54	6.88 1.79	6.48 1.66	4.86 1.42	6.03 1.92	6.50 1.28	6.53 1.55	5.65 1.56	5.57 2.06	6.00 2.56	5.57 1.83	27
28	5.05 1.36	7.26 2.37	6.94 2.00	6.19 1.68	5.40 1.55	6.12 1.67	6.48 1.28	5.89 1.02	5.38 1.56	5.65 2.29	5.96 2.20	5.68 1.63	28
29	5.56 1.50	7.49 2.52	6.83 1.69	5.70 1.63		6.39 1.77	6.11	5.51 1.21	5.43 1.80	5.71 2.59	6.06	6.18 1.55	29
30	6.02 1.57	7.53 2.62	6.46 3.51	5.54 2.50		6.72 2.02	5.56 1.02	5.26 1.44	5.66 2.30	5.89 2.30	6.22 1.84	5.67 1.87	30
31	5.93 1.38		6.14 1.57	5.79 1.79		6.12 1.33		5.13 1.34		6.14 2.06	6.24 1.72		31
MAXIMUM	6.36	7.53	7.30	6.76	6.20	6.72	6.63	6.86	6.76	6.91	6.70	6.55	MAXIMUM
MINIMUM	1.33	1.26	1.57	1.27	0.93	0.92	1.02	0.82	1.15	1.36	1.63	1.55	WINTERNOW

	LDCATI	ON	м	AXIMUM DISC		PERIOD (	F RECORD		DATUM	OF GAGE	
		1/4 SEC. T. 8 R.,		OF RECOF	RD	0100114005	GAGE HEIGHT	PER	RIOD	ZERO	REF.
LATITUDE	LONGITUDE	M.O.B. 8 M	CFS	GAGE HT	OATE	DISCHARGE	ONLY	FROM	ТО	ON GAGE	DATUM
38 04 25	121 51 18	SW 27 3N 1E		9.2	4-6-1958		JUNE 1929-DATE	1929 1929		0.00 -3.05	USED USCGS
								1964	1964	-3.54 -3.00	USCGS

TABLE B-3 (CONT.)

DAILY MAXIMUM AND MINIMUM TIDES
(IN FEET)

WATER YEAR	STATION NUMBER	STATION NAME
1971	E03300	SUISUN BAY AT BENICIA

	DATE	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	DATE
	1	3.10 -1.64	3.39	4.50 -1.68	3.02 -2.58	3.46 -1.66	2.86 -2.98	2.90 -3.06	2.54	2.37	3.03 -0.95	3.38 -1.79	3.55 -2.36	1
	2	3.35 -1.69	3.51	4.18 -2.30	3.08 -2.82	3.43	2.68 -3.25	2.43	2.26 -2.46	2.58 -1.09	3.14	3.56 -1.94	3.51	2
	3	3.42 -1.82	3.47 -2.15	3.70 -1.85	2.50 -2.03	3.16 -2.51	2.59 -3.10	2.29	2.43	2.81	3.33	3.81	3.62 -2.54	3
	4	3.36 ~1.95	3.29 -2.11	3.13 -2.34	2.87 -2.08	3.14	2.71	2.21 -2.55	2.48	3.05 ~2.05	3.59 -2.06	3.79 -2.34	2.82 -2.30	4
	5	3.45 -1.73	2.98 0.97	2.89 -0.13	3.20 -2.37	3.19 -2.90	2.25	2.36	2.81	3.21	3.85 -2.28	3.92 -2.52	3.67 -1.93	5
	6	3.26 0.85	2.70 -2.20	3.14	3.23 -2.83	3.30 -2.94	2.29 -3.45	2.59	3.11 -1.64	3.48 -2.57	4.05 -2.35	2.31	3.45 -1.73	6
	7	2.87 -2.06	2.59 -2.16	3.59 -1.32	3.45 -3.00	3.32 -3.02	2.45	2.56	3.17 -1.93	3.71 -2.66	2.27	3.80 -2.55	3.56 -1.92	7
	8	2.91 -2.43	2.70 -2.28	4.03 -1.60	3.69	3.25 -2.99	2.55 -2.93	2.18 -1.86	1.96 -2.27	2.13 -2.70	4.02 -2.76	3.48	3.84 -1.85	8
	9	3.13 -2.30	3.09 -1.91	4.16 -2.35	3.95 -2.84	2.86 -3.18	2.53 -2.81	2.65 -2.05	3.08 -2.76	3.84 -2.82	3.92 -2.89	3.09 -2.27	3.88 -1.92	9
	10	3.14 -1.96	3.46	3.97 -2.70	4.04	2.77 -2.94	2.46	2.93	3.24 -2.76	3.91	3.60 -2.99	3.28 -1.92	3.70 0.13	10
	11	3.09 -1.93	3.72 -2.24	3.98 -2.87	4.17	2.62 -2.62	2.40 -2.28	2.86 -2.63	3.42 -2.73	3.76 -2.87	3.31	3.59 -1.22	3.44	н
	12	3.06 -1.84	3.63 -2.78	4.11 -2.80	3.88 -2.17	2.30 -2.40	3.33 -1.49	2.94	3.50 -2.86	3.52 -2.88	3.01 -2.55	3.62 -0.68	3.35 -2.21	12
	13	3.39 -1.62	3.67 -3.01	4.16 -2.79	3.73 -2.29	2.46 -1.87	2.71 -1.82	3.12 -2.62	3.45 -3.03	3.03 -2.95	3.10 -2.24	3.68 -1.57	3.40 -2.23	13
	14	3.69 -1.92	3.66 -2.92	3.81 -2.79	3.20 -2.33	2.65 -1.31	2.46 -2.05	3.41 -2.63	3.25 -3.03	2.59	3.41 -1.56	3.66 -1.83	3.41	14
	15	3.74 -2.25	3.62 -2.81	3.54	2.78 -2.21	2.71 -1.35	2.42	3.10 -2.77	3.09 -2.92	2.92 -2.52	3.67 -1.33	3.62 -2.07	3.42 -1.95	15
	16	3.77 -2.42	3.31 -2.72	3.72 -2.06	2.54	2.71 -1.24	2.48	3.04 -2.53	2.34 -3.55	3.34	3.81 -1.65	3.63 -2.21	3.41	16
	17	3.72 -2.43	2.93 -2.65	3.07 -1.94	2.46	2.92 -1.43	2.56 -2.55	3.05 -2.47	2.14 -3.23	3.75 -1.44	3.80 -1.98	3.61 -2.33	2.95 -1.56	17
	18	3.49 -2.43	2.59 -2.47	3.17 -1.53	2.53 -0.78	2.49 -2.07	2.48	2.27 -2.94	2.61 -2.69	3.76 -1.84	3.91	3.65 -2.32	3.26 -1.47	18
	19	3.27 -2.16	2.21 0.56	2.85 -1.01	2.67 -0.97	2.57 -2.61	2.44	2.33	3.11	3.89 -2.30	4.02 -2.53	2.43 -2.18	3.08 -1.47	19
	20	2.93 0.98	2.28	2.95 0.63	2.86 -1.58	2.56 -3.05	2.64	2.64	3.53 -1.79	3.97 -2.69	4.04 -2.48	3.45 -2.22	3.17 -1.19	20
١	21	2.68 -2.21	2.57 -1.72	3.50 -0.16	2.96 -2.11	2.95 -3.24	2.63 -2.80	2.76 -2.80	3.74 -2.14	4.02 -2.90	2.37	3.24 -2.12	3.21 -1.47	21
	22	2.31	2.74	3.13 -1.19	3.21 -2.48	3.30 -3.00	2.76 -2.93	3.15 -2.42	4.05 -2.61	2.19 -2.99	3.85 -2.52	3.00 -1.95	3.19 -1.68	22
	23	2.45	2.69 -1.45	2.97 -1.85	3.53 -2.83	3.47 -3.17	3.03 -2.85	3.44 -2.54	2.29 -2.73	3.97 -2.95	3.66 -2.44	2.78 -1.74	3.08 -1.72	23
	24	2.38	3.09 -1.53	3.28	3.80 -3.01	3.44 -3.02	3.06 -2.68	2.12 -3.07	4.09 -3.02	3.88 -2.85	3.45 -2.19	2.92 -1.32	3.26 -1.50	24
1	25	2.49	3.62 -1.51	3.45 -2.75	3.80 -3.29	2.77 -3.50	3.14 -2.15	3.66 -3.19	4.10 -3.09	3.55 -2.76	3.03 -2.13	3.09	3.16 -1.75	25
I	26	2.38 -1.86	3.70 -1.88	3.84 -2.82	3.74 -3.30	2.32	3.56 -1.88	4.04 -3.15	3.99 -3.09	3.17 -2.56	2.63 -1.93	3.22 -1.17	2.92 1.05	26
	27	2.33	4.05 -1.35	4.14	3.79 -3.23	2.34	3.35 -2.38	3.86 -3.31	3.81 -2.88	2.86	2.75 -1.56	3.02 0.16	2.65	27
	28	2.50 -2.44	4.63 -1.74	4.24	3.52 -3.03	2.85 -2.64	3.44 -2.81	3.69 -3.18	3.21 -3.21	2.59 -2.17	2.78 -1.06	2.90 -1.45	2.75 -2.11	28
	29	2.99 ~2.34	4.83 -1.77	4.16 -3.06	3.06 -2.89		3.68 -2.72	3.25 -3.18	2.76 -2.83	2.67 -1.63	2.79 -0.90	3.02 -1.67	3.30 -2.28	29
	30	3.42	4.82 -1.81	3.78 -3.14	2.97 -2.43		3.85 -2.56	2.79 -3.14	2.38	2.82	2.90 -1.33	3.26 -1.90	2.87 -2.05	30
	31	3.29 -2.58		3.41 -3.05	3.19 -1.56		3.27 -3.21		2.30 -2.29		3.14 -1.50	3.32		31
-	MUMIXAN	3.77	4.83	4.50	4.17	3.47	3.85	4.04	4.10	4.02	4.05	3.92	3.88	MAXIMUM
LA	MUMININ	-2.58	-3.01	-3.14	-3.30	-3.50	-3.48	-3.31	-3.55	~2.99	-2.99	-2.55	-2.54	MINIMUM

LATITUDE LONGITUDE 174 SEC. 1. d.K.,	NEr.	ZERO ON		PER	GAGE HEIGHT	DISCHARCE	IU .	OF RECOR	1					
CATITODE   LONGITUDE	DATUM									8 R.,	SEC. T. E	1/4		LATITUDE
		GAGE	TO	FROM	ONLY	DISCHARGE	DATE	GAGE HT.	CFS	M.D.B. & M	LATITODE			
		-2.21					4-6-1958	5.7		2W	2N	SW 6	122 08 04	38 02 27

TABLE 8-4
CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS OF SURFACE WATER DATA

			Location of Error or Revision		Chonge o	r Revision
Report	Page	Mile & Bonk	Nome	İtem	From	То
Bulletin No. 23-62	394		Suisun Bay at Benicia Arsenal	1962  Daily Maximum and Minimum Tides for the period 3-1-62 to 3-28-62, inclusive	Published values	2.00 feet lower than published values
				Maximum for March 1962	16.72	14.72
Bulletin No. 130-63	B-7		Suisun Bay at Benicia Arsenal	1963 Maximum Gage Height of Record	6.72	5.7
				Date of Maximum Gage Height of Record	3-5-62	4-6-58
				1964		
Bulletin No. 130-64	48		Suisun Bay at Benicia Arsenal	Maximum Gage Height of Record	6.72	5.7
1				Date of Maximum Gage Height of Record	3-5-62	4-6-58
Bulletin No. 130-64	52		City of Vallejo from Cache Slough	Total acre-feet	Published values	Values published in Bulletin No. 130-66 Table B-2
				Average cubic feet per second	Published values	Values published in Bulletin No. 130-66 Table B-2
				Monthly quantities in percent of seasonal	Published values	Values published in Bulletin No. 130-66 Table B-2
				<u>1967</u>		
Bulletin No. 130-67	44		Sacramento River at Collinsville	Daily Maximum and Minimum Tides	•	Notation: In order to machine process the data it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain gage heights.
Bulletin No. 130-67	45		Suisun Bay at Benicia Arsnnal	Daily Maximum and Minimum Tides		Notation: In order to machine process the data it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain gage heights.

Appendix C: GROUND WATER MEASUREMENTS



#### INTRODUCTION

This appendix contains ground water level measurements from 385 wells for the period October 1, 1970, through September 30, 1971. It contains tables which summarize the measurements and bar graphs of average depth to water in selected basins.

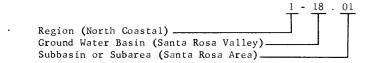
There are 28 ground water basins or areas in the Central Coastal Area for which data are reported.

Wells are selected to reflect the ground water conditions of the area. These wells are continuously reviewed, and when conditions dictate, replacement wells are located and measured.

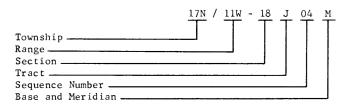
Two numbering systems are used by the Department to facilitate processing of water level measurement data. The two systems are the Region and Basin Designation and the State Well Numbering System as described below.

The regions used in this report are geographic areas defined in Section 13200 of the Water Code.

That portion of Northern California covered by this report comprises the southern portion of North Coastal Region No. 1, the northern portion of Central Coastal Region No. 3, and all of San Francisco Bay Region No. 2. A decimal system of the form 0-00.00 has been selected according to geographic regions, ground water basins, and subbasins or subareas as follows:



The State Well Numbering System is based on township, range, and section subdivisions of the public land survey. The number of a well, assigned in accordance with this system, is referred to as the State Well Number, as illustrated below:



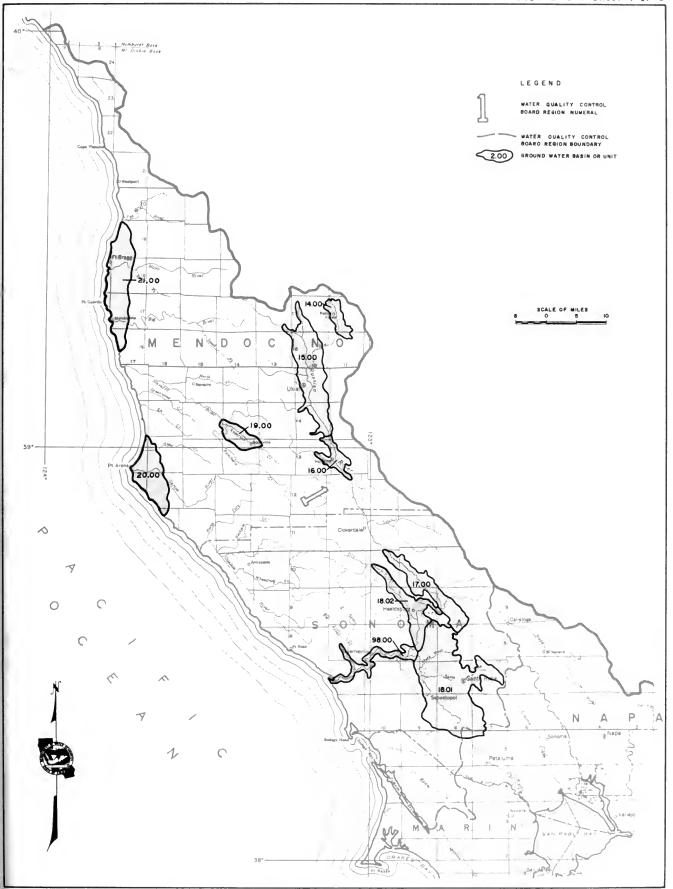
This number identifies and locates the well. In the example, the well is in Township 17 North, Range 11 West, Tract J of Section 18, located in the Mount Diablo Base and Meridian. A section is divided into 40-acre tracts as follows:

D	С	В	A
Е	F	G	Н
М	L	K	J
N	P	Q	R

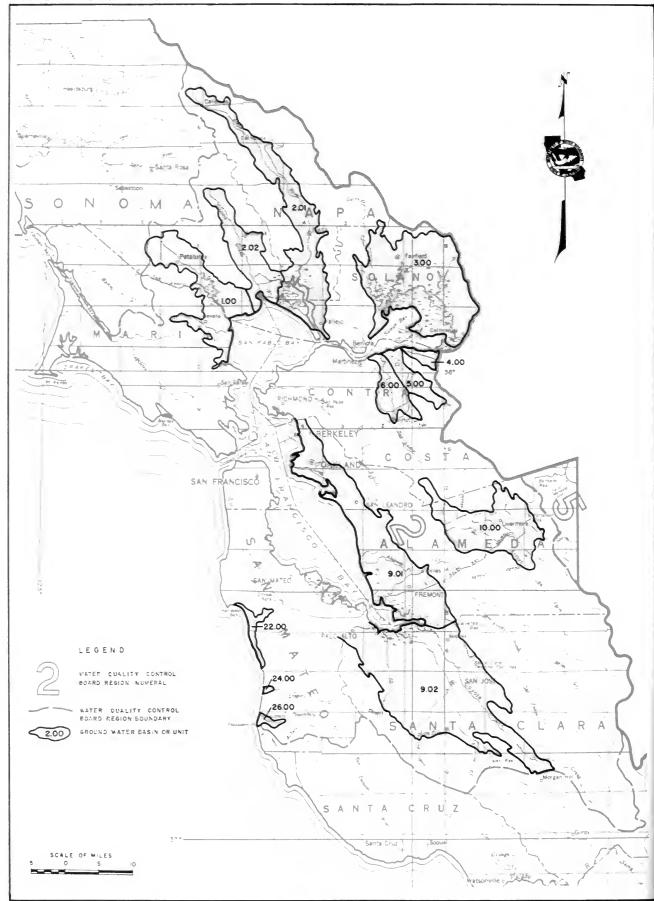
Sequence numbers in a tract are generally assigned in chronological order. The example designates the fourth well to be assigned a number in Tract J.

## INDEX TO GROUND WATER MEASUREMENT DATA IN THE CENTRAL COASTAL AREA

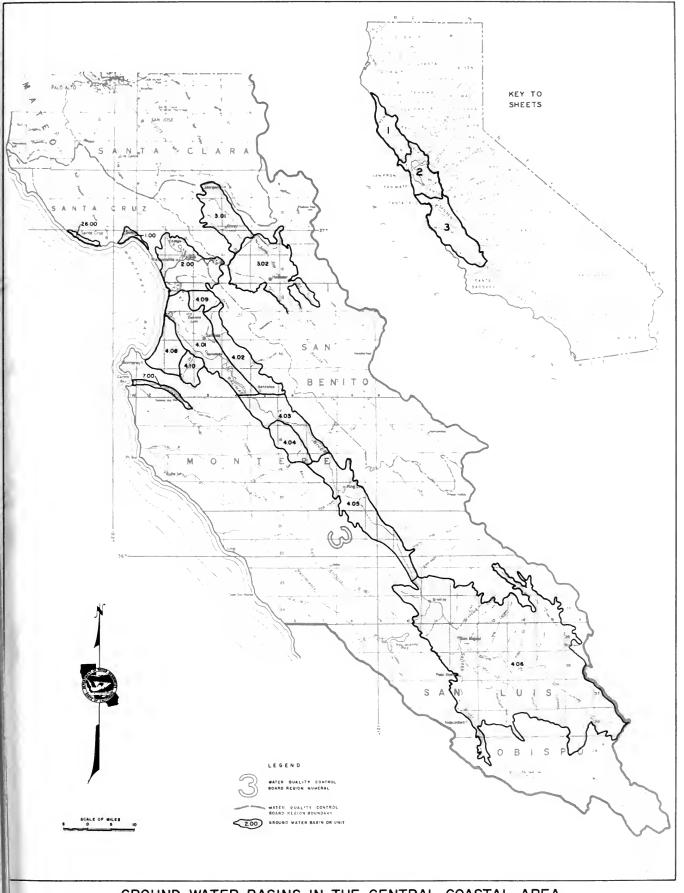
Number	<u>Basin</u>	Pa	age
NORTH	COASTAL REGION 1-00.00 (Figure C-1, Sheet	1)	
1-14.00	Potter Valley	20,	27
1-15.00	Ukiah Valley	20,	
1-16.00	Sanel Valley	20,	
1-17.00	Alexander Valley	20,	
1-17.00	Santa Rosa Valley	20,	21
1-18.00	Santa Rosa Area	20	27
1-18.02	Unaldahura Araa		
	Healdsburg Area	20,	21
1-19.00	Anderson Valley		
1-20.00	Point Arena		
1-21.00	Fort Bragg Terrace		
1-98.00	Lower Russian River Valley		
SAN FRAN	NCISCO BAY REGION 2-00.00 (Figure C-1, Sheet	t 2)	
2-01.00	Petaluma Valley	20,	28
2-02.00	Napa-Sonoma Valley	,	
2-02.01	Napa Valley	20,	28
2-02.02	Sonoma Valley	20,	
2-03.00	Suisun-Fairfield Valley	20,	
2-04.00	Pittsburg Plain	20,	
2-05.00	Clayton Valley	-0,	-
2-06.00	Ygnacio Valley	20,	30
2-09.00	Santa Clara Valley	-0,	30
2-09.01	East Bay Area	20,	30
2-09.02	South Bay Area	20,	
2-10.00	Livermore Valley	20,	
2-22.00	Half Moon Bay Terrace	20,	52
2-24.00	San Gregorio Valley		
2-24.00			
2-20.00	Pescadero Valley		
CENTRAI	L COASTAL REGION 3-00.00 (Figure C-1, Sheet	3)	
3-01.00	Soquel Valley		
3-02.00	Pajaro Valley	20,	34
3-03.00	Gilroy-Hollister Valley		
3-03.01	South Santa Clara County	20,	34
3-03.02	San Benito County	20,	34
3-04.00	Salinas Valley	•	
3-04.01	Pressure Area	20,	34
3-04.02	East Side Area	20,	
3-04.03	Forebay Area	20	
3-04.04	Arroyo Seco Cone	20,	35
3-04.05	Upper Valley Area	20,	
3-04.06	Paso Robles Basin	20,	
3-04.08	Seaside Area	20,	
3-04.09	Langley Area	20	
3-04.10	Corral De Tierra Area	20	
3-07.00	Carmel Valley	20,	36
3-26.00	West Santa Cruz Terrace	-,	



GROUND WATER BASINS IN THE CENTRAL COASTAL AREA



GROUND WATER BASINS IN THE CENTRAL COASTAL AREA



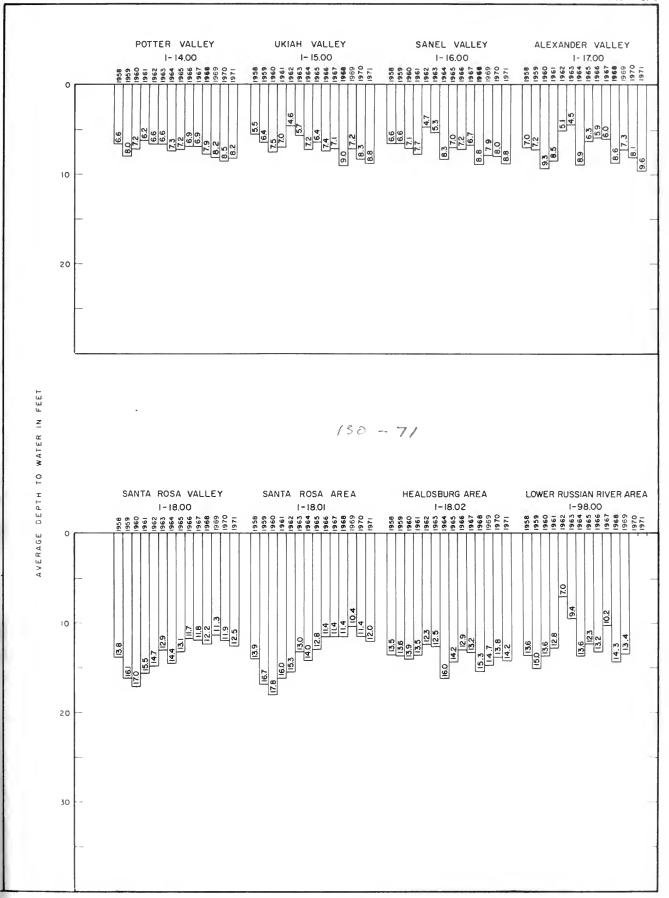
GROUND WATER BASINS IN THE CENTRAL COASTAL AREA

TABLE C-1

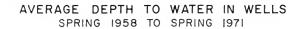
AVERAGE CHANGE OF GROUND WATER LEVELS
AND SUMMARY OF WELL MEASUREMENTS REPORTED

Ground Water Basin or A	irea	Average Change Spring 1970	Moscuring Access	1	Number o	
Name	Number	to Spring 1971 in Feet	Measuring Agency	Monthly 1970-71	Fall 1970	Spring 1971
NORTH COASTAL REGION						
Potter Valley	1-14.00	+0.3	Department of Water Resources		2	2
Ukiah Valley	1-15.00	-0.5	Department of Water Resources		2	2
Sanel Valley	1-16.00	-0.8	Department of Water Resources		3	3
Alexander Valley	1-17.00	-1.5	Department of Water Resources		6	6
Santa Rosa Valley	1-18.00					
Santa Rosa Area	1-18.01	-0.6	Department of Water Resources		12	12
Healdsburg Area	1-18.02	-0.4	U. S. Geological Survey	9		
SAN FRANCISCO BAY REGION						
Petaluma Valley	2-01.00	-1.5	Department of Water Resources		6	6
Napa-Sonoma Valley	2-02.00					
Napa Valley	2-02.01	-0.2	Napa County Department of Water Resources		5	1·12 5
Sonoma Valley	2-02.02	0.0	Department of Water Resources		5	5
Suisun-Fairfield Valley	2-03.00	-0.8	Solano County Department of Water Resources	7	16	15
Pittsburg Plain	2-04.00	-0.2	Department of Water Resources		6	6
Ygnacio Valley	2-06.00	-0.4	Department of Water Resources		5	5
Santa Clara Valley	2-09.00					
East Bay Area	2-09.01	+0.3	Alameda County FC & WCD Alameda County Water District	3 2	6 3	6 3
South Bay Area	2-09.02	+3.7	Santa Clara Valley WCD	16		
Livermore Valley	2-10.00	+2.5	Alameda County FC & WCD	8	59	58
CENTRAL COASTAL REGION						
Pajaro Valley	3-02.00	-1.2*	Monterey County FC & WCD Department of Water Resources	3	2 5	5
Gilroy-Hollister Valley	3-03.00	-7.9				
South Santa Clara County	3-03.01	-9.2	Santa Clara Valley WCD Department of Water Resources		7 7	7 7
San Benito County	3-03.02	-0.1	San Benito County Department of Water Resources		5	2 5
Salinas Valley	3-04.00	+0.1*				
Pressure Area	3-04.01	+0.8*	Monterey County FC & WCD	3	4	
East Side Area	3-04.02	+0.3*	Monterey County FC & WCD		1	
Forebay Area	3-04.03	+1.7*				
Arroyo Seco Cone	3-04.04	-4.6*	Monterey County FC & WCD	2		
Upper Valley Area	3-04.05	-0.8*	Monterey County FC & WCD	3	2	
Paso Robles Basin	3-04.06	-3.1*	San Luis Obispo FC & WCD	5	43	44
Seaside Area	3-04.08	-1.6*	Post Engineer, Fort Ord	2		
Langley Area	3-04.09	-0.8*				
Corral de Tierra Aren	3-04.10	-1.1*				
Carmel Valley	3-07.00	-3.2*	Monterey County FC & WCD	4		
TOTAL				67	212	316

<sup>\*</sup>Average change determined from water level measurements made during fall of 1969 and fall of 1970.



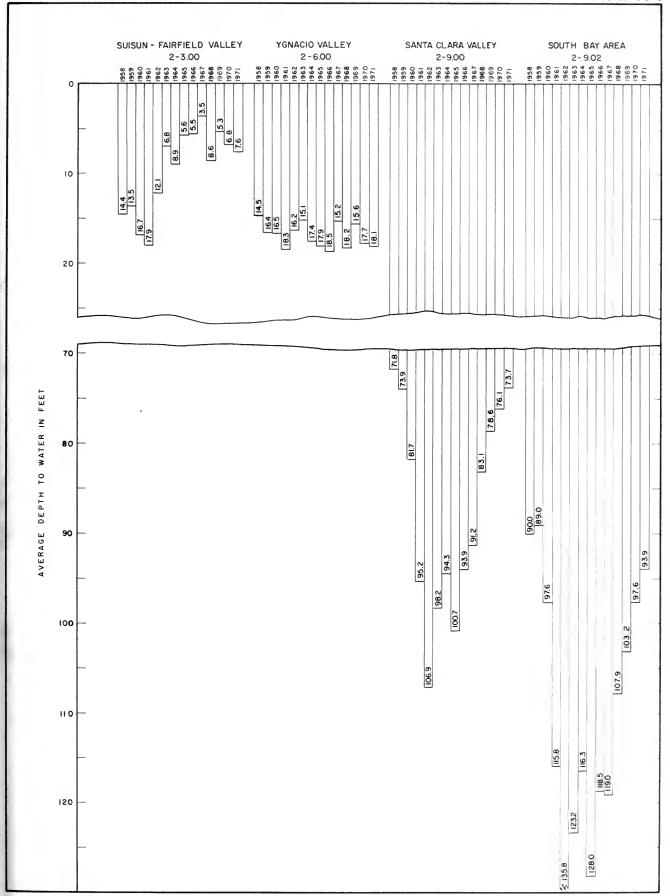
AVERAGE DEPTH TO WATER IN WELLS SPRING 1958 TO SPRING 1971



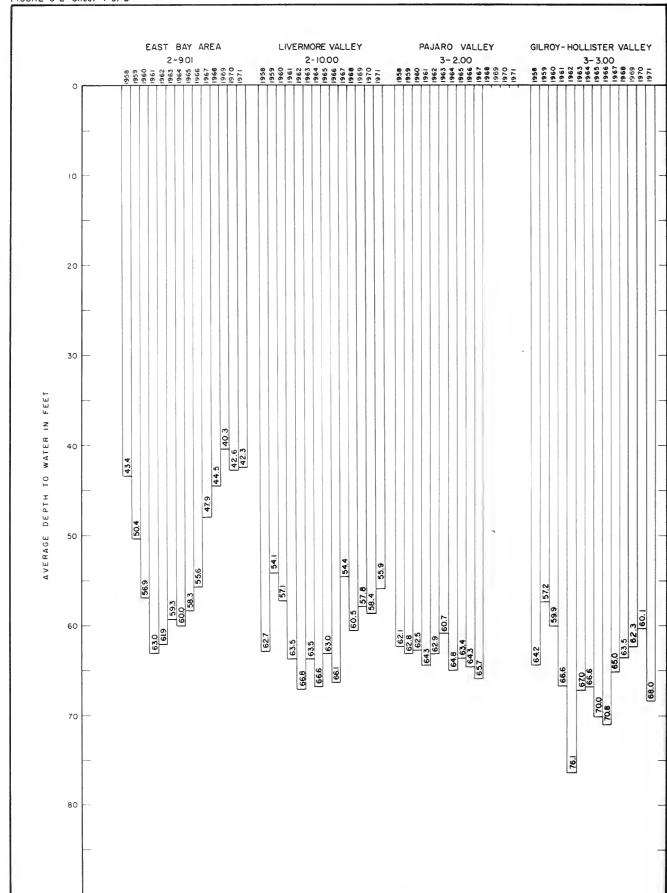
60

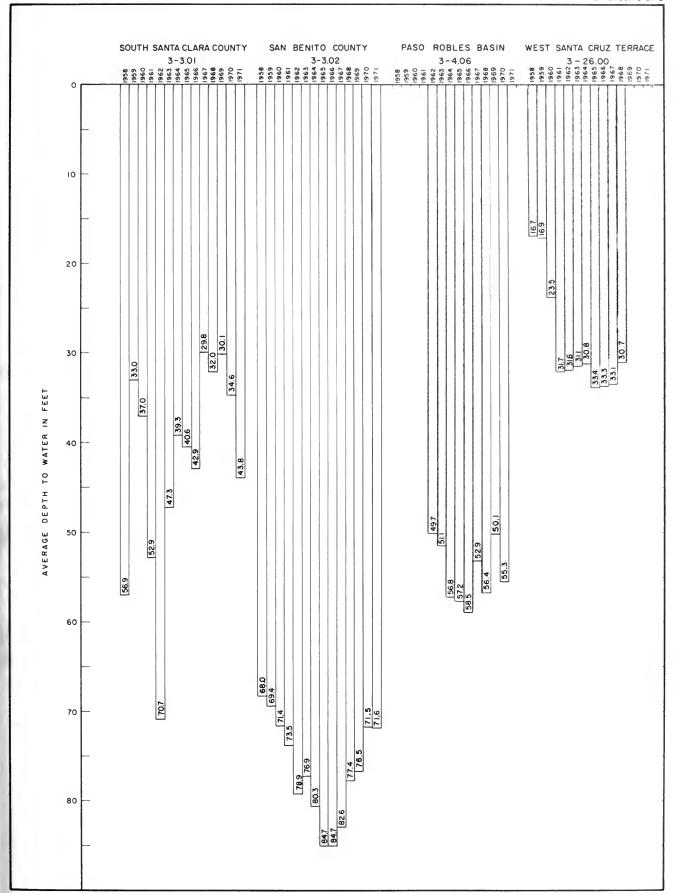
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AVERAGE DEPTH TO WATER IN WELLS SPRING 1958 TO SPRING 1971





AVERAGE DEPTH TO WATER IN WELLS SPRING 1958 TO SPRING 1971

An explanation of the column headings and the code symbols follows:

State Well Number - Refer to the explanation under Introduction on page 15.

<u>Ground Surface Elevation</u> - The numbers in this column are the elevations in feet above mean sea level (USGS Datum) of the ground surface at the well. Elevations are usually taken from topographic maps and the accuracy is controlled by topographic standards.

Date - The date shown is when the depth measurement given in the next column was made.

Ground Surface to Water Surface - This is the measured depth in feet from the ground surface to the water surface in the well; certain of the depth measurements in the column may be preceded by a number in parentheses to indicate a questionable measurement. The code applicable to these "questionable measurements" is as follows:

1	7	٦					
1	1	-1	Pum	n	7	n	$^{\circ}$
v	-	,	<b>-</b> uni	Р	-		6

- (2) Nearby pump operating
- (3) Casing leaking or wet
- (4) Pumped recently
- (5) Air or pressure gage measurement
- (6) Other
- (7) Recharge operation at or near well
- (8) Oil in casing
- (9) Caved or deepened

When a measurement was attempted, but could not be obtained, then only a number in parentheses is shown in the column. The code applicable to these "no measurements" is as follows:

- (1) Pumping
- (2) Pump house locked
- (3) Tape hung up
- (4) Cannot get tape in casing
- (5) Unable to locate well

- (6) Well has been destroyed
- (7) Special
- (8) Casing leaking or wet
- (9) Temporarily inaccessible
- (0) Measurement discontinued

The words FLOW and DRY are shown in this column to indicate a flowing or dry well, respectively. A minus preceding the number in this column indicates that the static water level in the well is this distance in feet above the ground surface.

<u>Water Surface Elevation</u> - This is the elevation in feet above mean sea level (USGS Datum) of the water surface in the well. It was derived by subtraction of the depth measurement from the ground surface elevation.

Agency Supplying Data - Each number in this column is the code number for the agency supplying data for that measurement. The agencies supplying data for this report and the code numbers assigned to them are as follows:

Code	Agency
2100	Monterey County Flood Control and Water Conservation District
2400	Santa Clara County Flood Control and Water District
5000	U. S. Geological Survey
5005	Post Engineer, Fort Ord
5050	Department of Water Resources
5100	Alameda County Flood Control and Water
	Conservation District
5101	Napa County
5102	Santa Cruz County
5109	Solano County
5117	San Luis Obispo County Flood Control and
	Water Conservation District
5151	San Benito County
5200	City of Gilroy
5401	Alameda County Water District

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
	NORTH COAS	STAL REGION	1-00.00			SANTA ROSA AREA 1-	18.01 (Cont	inued)			
POTTER VALLEY 1-14.	.00					08N/09W-36P01M	90.0	10- 8-70 3-10-71	55.3 50.9	34.7 39.1	5050
17N/11W-18J01M	955.0	10-06-70 3-11-71	0.9	954.1 955.3	5050 5050			3-10-71	30.9	39.1	5050
17N/11W-32J01M	905.0	10-06-70 3-11-71	4.1	900.9 902.9	5050 5050	HEALDSBURG AREA 1- 08N/09W-03P01M	77.0	10-21-70	8.7	68.3	5000
UKIAH VALLEY 1-15.0	10							11-16-70 12-15-70 1-15-71	4.9 3.7 4.1	72.1 73.3 72.9	5000 5000
15N/12W-08L01M	640.0	10-06-70	28.1	611.9	5050			2-16-71 3-15-71	3.3	73.7 71.5	5000 5000 5000
		3-11-71	19.0	621.0	5050			4-14-71 5-13-71	5.5 6.4	71.5 70.6	5000 5000
15N/12W-35M01M	600.0	10-06-70 3-11-71	7.9 3.2	592.1 596.8	5050 5050	08N/09W-22L01M	67.0	9-10-71 10-21-70	8.6 31.9	68.4 32.1	5000
SANEL VALLEY 1-16.0	00							11-16-70 12-15-70	30.6 27.6	36.4 39.4	5000 5000
13N/11W-18E01M	490.0	10-07-70 3-11-71	(1) 13.2 11.5	476.8 478.5	5050 5050			1-15-71 2-16-71 3-15-71	28.3 (1) 30.2 27.9	38.7 36.8 39.1	5000 5000 5000
13N/11W-19P01M	488.0	10-07-70 3-11-71	19.4	468.6 477.7	5050 5050			4-14-71	(1) 29.6 (1) 29.5 31.2	37.4 37.5 35.8	5000 5000 5000
13N/11W-20G01M	515.0	10-07-70	12.9	502.1	5050	09N/09W-20E02M	100.0	10-21-70	18.2	81.8	5000
		3-11-71	5.0	510.0	5050			11-16-70 12-15-70 1-15-71	16.9 (4) 16.6 15.5	83.1 83.4 84.5	5000 5000 5000
ALEXANDER VALLEY 1-	17.00							2-16-71 3-15-71	17.4 15.6	82.6 84.4	5000 5000
10N/09W-18B01M	230.0	10-07-70 3-10-71	20.6 16.4	209.4 213.6	5050 5050			4-14-71 5-13-71	16.9 17.6	83.1 82.4	5000 5000
10N/09W-26L02M	205.0	10-07-70 3-10-71	(1) 23.6 3.0	181.4 202.0	5050 5050	09N/09W-20K04M	97.0	9-10-71 10-21-70	18.6 7.2	81.4	5000
10N/09W-33C01M	180.0	10-07-70 3-10-71	7.5 6 2	172.5 173.8	5050 5050			11-16-70 12-15-70 1-15-71	6.1 2.8 1.5	90.9 94.2 95.5	5000 5000 5000
11N/10W-08P01M	305.0	10-07-70 3-11-71	11.8 10.8	293.2 294.2	5050 5050			2-16-71 3-15-71 4-14-71	3.0 2.5 2.8	94.0 94.5 94.2	5000 5000 5000
11N/10W-17P02M	292.0	10-07-70 3-11-71	10.0	282.0 282.5	5050			5-13-71 9-10-71	4.0 7.5	93.0 89.5	5000 5000
11N/10W-19F02M	346.0	10-07-70	13.8	332.2	5050	09N/09W-28N01M	90.0	10-21-70 11-16-70	25.9 18.6	64.1 71.4	5000 5000
		3-11-71	5.7	340.3	5050			12-15-70 1-15-71 2-16-71	17.2 16.7 18.2	72.8 73.3 71.8	5000 5000 5000
SANTA ROSA VALLEY 1	-18.00							3-15-71 4-14-71	16.9 18.0	73.1 72.0	5000 5000
SANTA ROSA AREA 1-1	8.01							5-13-71	18.5 (4) 25.5	71.5 64.5	5000 5000
06N/08W-07P02M	95.0	10-08-70 3-10-71	(4) 49.0 15.3	46.0 79.7	5050 5050	09N/10W-12C01M	120.0	10-21-70 11-16-70	15.0 14.3	105.0 105.7	5000 5000
06N/08W-13R01M	115.0	10-08-70 3-10-71	30.1 18.9	84.9 96.1	5050 5050			12-15-70 1-15-71	13.5 13.2	106.5 106.8	5000 5000
06N/08W-15J03M	95.0	10-08-70 3-10-71	27.9 14.3	67.1 80.7	5050 5050			2-16-71 3-15-71 4-14-71	14.4 12.9 13.7	105.6 107.1 106.3	5000 5000 5000
06N/08W-15R01M	95.0	10-08-70 3-10-71	34.8 20.0	60.2 75.0	5050 5050			5-13-71 9-10-71	14.7 15.9	105.3 104.1	5000 5000
07N/06W-19N01M	465.0	10-08-70 3-10-71	15.9 6.2	449.1 458.8	5050 5050	10N/10W-22D01M	180.0	10-21-70 11-16-70 12-15-70	11.6	168.4 169.3 171.3	5000 5000 5000
07N/07W-06R01M	275.0	10-08-70	13.5	261.5 268.1	5050			1-15-71 2-16-71 3-15-71	7.4 10.0 8.4	172.6 170.0 171.6	5000 5000 5000
07N/08W-11M01M	160.0	3-10-71	8.6	151.4	5050			4-14-71 5-13-71	(2) 9.4 (4) 10.3	170.6 169.7	5000 5000
07N/08W-24H01M	190.0	3-10-71 10-08-70	(6) (9)		5050 5050	10N/10W-26M01M	161.0	9-10-71 10-21-70	11.8	168.2	5000
07N/09W-01C01M	90.0	3-10-71 10-08-70	10.7	179.3 67.0	5050 5050			11-16-70 12-15-70 1-15-71	10.7 9.2 9.0	150.3 151.8 152.0	5000 5000 5000
07N/09W-35D02M	135.0	3-10-71	18.5	71.5	5050			2-16-71 3-15-71 4-14-71	10.6 9.2 10.1	150.4 151.8 150.9	5000 5000 5000
		3-10-71	27.5	107.5	5050			5-13-71 9-10-71	10.1	150.9 150.2 147.8	5000 5000 5000
08N/09W-36N01M	90.0	10-08-70 3-10-71	10.2	79.8 83.8	5050 5050						

TABLE C-2 (Cont.)

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
HEALDSBURG AREA 1-1	8.02 (Cont	inued)				NAPA VALLEY 2-02.01	(Continued	)			
10N/10W-35Q01M	142.0	10-21-70	6.1	135.9	5000	05N/04w-20R02M	50.0	3-26-71	1.2	48.8	5101
		11-16-70 12-15-70	5.9 1.0	136.1 141.0	5000 5000	05N/04W-21B01M	75.0	3-26-71	16.3	58.7	5101
		1-15-71 2-16-71	0.7 1.3	141.3	5000 5000	05N/04W-22M01M	12.0	3-26-71	-0.8	12.8	5101
		3-15-71 4-14-71	1.1	140.9 141.0	5000 5000	05N/04W-28R01M	37.0	3-26-71	29.9	7.1	5101
		5-13-71 9-10-71	2.0 5.5	142.0 136.5	5000 5000	05N/04W-29H01M	77.0	3-26-71	44.2	32.8	5101
						06N/03w-31B01M	240.0	3-26-71	91.0	149.0	5101
		ISCO BAY REC	310N 2-00.C	10		06N/03W-31F01M	145.0	3-26-71	42.0	103.0	5101
PETALUMA VALLEY 2-0		10 00 70	0.2	2.2	5050	06N/03W-31H01M	180.0	3-25-71	78.5	101.5	5101
03N/06W-01Q01M	2.0	10 <b>-</b> 09-70 3-09-71	-0.3 -0.2	2.3	5050 5050	06N/03W-31N01M	170.0	3-25-71	56.5	113.5	5101
05N/07W-19N01M	45.0	10-09-70	13.3	31.7	5050	06N/03W-31N02M	167.0	3-25-71	30.0	137.0	5101
052/072 207022	/1.0	3-09-71	3.9	41.1	5050	06N/04W-05R01M	67.0	3-25-71	4.0	63.0	5101
05N/07W-20B02M	41.0	10-09-70 3-09-71	59.8 45.8	-18.8 -4.8	5050 5050	06N/04W-06L02M	80.0	3-25-71	7.5	72.5	5101
05N/07W-21H01M	65.0	10-09-70	38.9	26.1	5050	06N/04W-06N01M	75.0	3-25-71	16.0	59.0	5101
05N /07N 26D01N	F2 (	3-09-71	24.3	40.7	5050	06N/04W-06P01M	75.0	3-25-71	8.0	67.0	5101
05N/07W-26R01M	53.6	10-09-70 3-09-71	26.2 17.7	27.4 35.9	5050 5050	06N/04W-07N01M	135.0	3-25-71	18.5	116.5	5101
05N/07W-35K01M	18.8	10-09-70	(2)	11.2	5050	06N/04W-08E01M	70.0	3-24-71	7.0	63.0	5101
		3-09-71	7.6	11.2	5050	06N/04W-15Q01M	67.0	3-25-71	43.7	23.3	5101
NAPA-SONOMA VALLEY	2-02.00					06N/04W-16P01M	62.0	3-26-71	7.9	54.1	5101
NAPA VALLEY 2-02.01						06N/04W-17A01M	67.0	10-05-70	13.5	53.5	5050
04N/04W-02L01M	25.0	3-24-71	4.2	20.8	5101	068/0/11 184029	95.0	3-09-71	6.1	60.9	5050
04N/04W-04C01M	12.0	3-23-71	9.7	2.3	5101	06N/04W-18A02M 06N/04W-19B01M	85.0 125.0	3-18-71 3-18 <b>-</b> 71	18.0 17.5	67.0 107.5	5101
04N/04W-05B01M	31.0	3-23-71	9.4	21.6	5101	06N/04W-21G01M	61.0	3-18-71	1.0	60.0	5101
04N/04W-05D02M	22.0	3-23-71	5.2	16.8	5101	06N/04W-22P01M	53.0	3-18-71	9.5	43.5	5101
04N/04W-12M01M	48.0	3-24-71	12.6	35.4	5101	06N/04W-23J01M	87.0	3-18-71	37.5	49.5	5101
04N/04W-14C02M	34.0	3-17-71	32.0	2.0	5101	06N/04W-26N01M	32.0	3-18-71	11.7	20.3	5101
04N/04W-25K01M	37.0	3-17-71	2.0-	35.0	5101	06N/04W-27L02M	50.0	10-05-70	48.9	1.1	5050
05N/03W-05M01M	255.0	3-26-71	94.5	160.5	5101	00.1,04.1 2,202.1	20.0	3-09-71	24.6	25.4	5050
05N/04W-03G01M	18.0	3-22-71	4.7	13.3	5101	06N/04W-27N01M	50.0	3-18-71	14.5	35.5	5101
05N/04W-04G01M	63.5	3-22-71	36.3	27.2	5101	06N/04W-28K01M	62.0	3-19-71	8.1	53.9	5101
05N/04W-04Q01M	58.0	3-22-71	11.6	46.4	5101	06N/04W-29B01M	92.0	3-19-71	7.3	84.7	5101
05N/04W-05P01M	121.0	3-23-71	3.3	117.7	5101	06N/04W-30C01M	149.0	3-19-71	4.9	144.1	5101
05N/04W-05P02M	122.0	3-22-71	12.7	109.3	5101	06N/04W-32J06M	94.0	3-19-71	5.0	89.0	5101
05N/04W-10F01M	30.0	3-23-71	2.9	27.1	5101	06N/04W-32L02M	107.0	3-19-71	22.5	84.5	5101
05N/04W-11F03M	16.0	3-23-71	8.0	8.0	5101	06N/04W-35G03M	38.0	3-19-71	38.9	-0.9	5101
05N/04W-11M01M	13.0	10-05-70 3-09-71	8.5 7.5	4.5 5.5	5050 5050	06N/04W-36H01M	105.0	3-22-71	24.3	80.7	5101
05N/04W-12F01M	130.0	3-23-71	30.5	99.5	5101	06N/05W-12R01M	180.0	3-22-71	13.5	166.5	5101
05N/04W-12H01M	121.0	3-22-71	46.0	75.0	5101	07N/04W-30L01M	112.0	3-17-71	3.5	108.5	5101
05N/04W-13H01M	132.0	3-24-71	6.3	125.7	5101	07N/04W-30M01M	114.0	3-17-71	8.0	113.2	5101
05N/04W-13H02M	120.0	3-24-71	12.0	108.0	5101	07N/04W-32B02M	180.0	3-17-71	3.0	177.0	5101
05N/04W-14C01M	17.0	3-24-71	12.3	4.7	5101	07N/05W-03G01M	188.0	3-22-71	35.0	153.0	5101
05N/04W-15C02M	22.0	3-24-71	18.5	3.5	5101	07N/05W-03G02M	188.0	3-31-71	13.4	174.6	5101
05N/04W-15E01M	22.0	3-24-71	14.6	7.4	5101	07N/05W-04R02M	172.0	3-23-71	6.8	165.2	5101
05N/04W-19R02M	110.0	3-24-71	13.7	96.3	5101	07N/05W-05A01M	182.0	3-22-71	2.0	180.0	5101

TABLE C-2 (Cont.)

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
NAPA VALLEY 2-02.01	(Continued	)				NAPA VALLEY 2-02.01	(Continued	)			
07N/05W-06F01M	245.0	3-22-71	16.0	229.0	5101	08N/06W-25G02M	230.0	3-29-71	10.6	219.4	5101
07N/05W-06J01M	215.0	3-22-71	13.5	201.5	5101	09N/06W-31Q01M	340.0	3-29-71	0.1	339.0	5101
07N/05W-08A01M	175.0	3-23-71	10.5	164.5	5101	09N/06W-32M01M	360.0	3-29-71	9.0	351.0	1012
07N/05W-08M01M	190.0	3-23-71	20.5	169.5	5101	09N/07W-24L01M	460.0	3-17-71	7.4	452.6	1016
07N/05W-09Q01M	155.0	3-22-71	9.9	145.1	5101	09N/07W-25N01M	380.0	3-31-71	3.0	377.0	101
07N/05W-09Q02M	155.0	10-05-71	18.1	136.9	5050	09N/07W-25N02M	380.0	3-31-71	3.5	376.5	5101
		3-09-71	12.0	143.0	5050	09N/07W-26P01M	400.0	3-25-71	1.0	399.0	101
07N/05W-09Q03M	155.0	3-22-71	4.3	150.7	5101	09N/07W-35K01M	399.0	3-17-71	1.0	398.0	5101
07N/05W-10C01M	162.2	3-22-71	15.0	147.2	5101						
07N/05W-14B02M	139.0	3-24-71	3.6	135.4	5101	SONOMA VALLEY 2-02.	.02				
07N/05W-14J01M	140.0	3-24-71	3.7	136.3	5101	05N/05W-17C0IM	85.0	10-09-70 3-09-71	25.I 11.5	59.9 73.5	5050 5050
07N/05W-15A01M	143.0	3-24-71	8.4	134.6	5101	05N/05W-18R01M	43.0	10-09-70	13.5	29.5	5050
07N/05W-15F01M	141.0	3-24-71	1.5	139.5	5101			3-09-71	3.1	39.9	5050
07N/05W-16L01M	171.0	3-24-71	3.2	167.8	5101	05N/05W-28N0IM	11.0	10-09-70 3-09-71		-7.6 2.5	5050 5050
07N/05W-16N02M	193.0	3-24-71	12.7	180.3	5101	05N/05W-29N01M	16.0	10-09-70	(1)	2.5	5050
07N/05W-17B02M	161.0	3-17-71	-0.1	161.1	5101	0311,0311 23110111	10.0	3-09-71	(8)		5050
07N/05W-21G01M	152.0 .	3-17-71	-1.0	153.0	5101	05N/05W-30J03M	16.0	10-09-70 3-09-71	14.8	1.2 9.1	5050 5050
07N/05W-22E03M	140.0	3-29-71	3.0	137.0	5101			3-03-71	0.9	9.1	5030
07N/05W-22H01M	133.0	3-27-71	10.5	122.5	5101	SUISUN-FAIRFIELD VA	ALLEY 2-03.0	00			
07N/05W-23D02M	127.0	3-27-71	6.5	120.5	5101	04N/02W-04D02M	26.0	10-26-70	10.1	15.9	5109
07N/05W-23Q01M	115.0	3-27-71	3.9	111.1	5101		25.0	3-17-71	8.4	17.6	5109
07N/05W-24P01M	127.0	3-27-71	1.2	125.8	5101	04N/02W-06A01M	35.0	10-16-70 10-26-70	13.7	21.3	5050 5109
07N/05W-25A01M	163.0	3-27-71	8.0	155.0	5101			11-16-70 12-15-70	14.7 13.1	20.3	5050 5050
07N/05W-26D02M	127.0	3-25-71	5.0	122.0	5101	:		1-15-71 3-02-71	(9) 12.8	22.2	5050 5050
07N/05W-34C02M	190.0	3-25-71	3.4	186.6	5101			3-18-71 3-30-71	12.5 12.0	22.5 23.0	5109 5050
07N/05W-35F02M	175.0	3-30-71	3.2	171.8	5101			4-28-71 5-25-71	12.5 12.9	22.5 22.1	5050 5050
07N/05W-36N01M	141.0	3-30-71	4.5	136.5	5101			6-24-71 7-30-71	13.1 13.3	21.9 21.7	5050 5050
07N/06W-01A01M	264.0	3-30-71	12.3	251.7	5101			8-31-71 9-28-71	13.5 (9)	21.5	5050 5050
08N/05W-30P01M	220.0	3-17-71	0.7	219.3	5101	04N/02W-07D01M	17.0	10-26-70	9.7	7.3	5109
08N/05W-31H01M	212.0	3-22-71	9.2	202.8	5101			3-17-71	2.3	14.7	5109
08N/05W-31P02M	237.0	3-25-71	(7)		5101	04N/02W-09A01M	7.0	10-16-70 10-26-70	0.7 FLOW	6.3	5050 5109
08N/05W-31R01M	210.0	3-17-71	6.8	203.2	5101			11-16-70 12-15-70	0.3 FLOW	6.7	5050 5050
08N/05W-32K04M	192.0	3-25-71	6.0	186.0	5101			1-15-71 3-02-71	FLOW FLOW		5050 5050
08N/06W-03M01M	330.0	3-17-71	33.0	297.0	5101			3-17-71 3-30-71	FLOW FLOW		5109 5050
08N/06W-04F01M	330.0	3-23-71	65.0	265.0	5101			4-28-71 5-26-71	-0.5 -0.2	7.5 7.2	5050 5050
08N/06W-06L04M	335.0	3-23-71	8.0	327.0	5101			6-24-71 7-30-71	0.3	6.7 6.5	5050 5050
08N/06W-09D02M	290.0	3-24-71	12.0	278.0	5101			8-31-71 9-28-71	0.5	6.5	5050 5050
08N/06W-09H01M	290.0	3-23-71	1.5	288.5	5101	04N/02W-09H01M	4.0	10-16-70	(1)		5050
08N/06W-09H02M	291.5	3-30-71	2.5	289.0	5101			11-16-70 12-15-70	0.3 FLOW	3.7	5050 5050
08N/06W-10Q01M	290.0	10-05-70	7.2	282.8	5050			1-15-71 3-02-71	-0.4	4.4	5050 5050
2017 00H- 10Q01M	270.0	3-09-71	2.4	287.6	5050			3-30-71 4-28-71	1.1	2.9	5050 5050
08N/06W-14N01M	285.0	3-31-71	10.6	274.4	5101			5-26-71 6-24-71		1.0-	5050 5050
08N/06W-14Q01M	250.0	3-23-71	7.5	242.5	5101			7-30-71 8-31-71	(1) (1)		5050 5050
08N/06W-23M01M	285.0	3-17-71	3.4	281.6	5101			9-28-71	0.4	3.6	5050
08N/06W-24B01M	300.0	3-17-71	9.5	290.5	5101						

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SUISUN-FAIRFIELD VA	ALLEY 2-03.	00 (Continue	ed)			PITTSBURG PLAIN 2-0	04.00				
04N/03W-01D01M	37.0	10-26-70 3-17-71	7.7 2.8	29.3 34.2	5109 5109	02N/01E-15N01M	40.0	10-19-70 3-08-71	34.2 33.0	5.8 7.0	5050 5050
04N/03W-13G01M	47.0	10-26-70 3-17-71	19.3 18.1	27.7 28.9	5109 5109	02N/01E-15P01M	35.0	10-19-70 3-08-71	21.0 19.9	14.0 15.1	5050 5050
05N/01E-19R01M	39.0	10-27-70 3-17-71	11.1 5.5	27.9 33.5	5109 5109	02N/01E-18D01M	25.0	10-19-70 3-08-71	24.9 21.4	0.1 3.6	5050 5050
05N/01W-02N01M	88.5	10-26-70 3-17-71	9.5 7.9	79.0 80.6	5109 5109	02N/01W-04Q01M	5.0	10-19-70 3-08-71	4.4 (9)	0.6	5050 5050
05N/01W-07E01M	115.0	10-26-70 3-17-71	14.6 12.7	100.4 102.3	5109 5109	02N/01W-11L01M	30.0	10-19-70 3-08-71	30.4 30.1	-0.4 -0.1	5050 5050
05N/01W-25R01M	25.0	10-27-70 3-17-71	9.8 6.2	15.2 18.8	5109 5109	02N/01W-12P01M	30.0	10-19-70 3-08-71	27.7 27.4	2.3	5050 5050
05N/02W-08G03M	143.0	10-26-70 3-18-71	12.6 9.5	130.4 133.5	5109 5109	YGNACIO VALLEY 2-06	5.00				
05N/02W-14N03M	100.0	10-26-70	(6)		5109	01N/01W-07K01M	83.0	10-19-70 3-08-71	11.8 10.4	71.2 72.6	5050 5050
05N/02W-21P03M	60.0	10-16-70 10-26-70 11-16-70	12.0 10.9 12.1	48.0 49.1 47.9	5050 5109 5050	01N/02W-11N01M	63.0	10-19-70 3-08-71	13.5 11.0	49.5 52.0	5050 5050
		12-15-70 1-15-71 3-02-71	10.2 8.2 8.8	49.8 51.8 51.2	5050 5050 5050	01N/02W-13P01M	100.0	10-19-70 3-08-71	(8) 7.9	92.1	5050 5050
		3-18-71 3-30-71 4-28-71	9.0 9.2 9.6	51.0 50.8 50.4	5109 5050 5050	02N/02W-27R01M	15.0	10-19-70 3-08-71	5.6 2.9	9.4 12.1	5050 5050
		5-25-71 6-24-71 7-30-71 8-31-71	9.1 8.4 8.9 9.8	50.9 51.6 51.1 50.2	5050 5050 5050 5050	02n/02w-36E01M	48.0	10-19-70 3-08-71	17.6 15.1	30.4 32.9	5050 5050
		9-28-71	10.8	49.2	5050	SANTA CLARA VALLEY	2-09.00				
05N/02W-25R01M	7.0	10-16-70 10-26-70 11-16-70	5.3 4.6 4.9	1.7 2.4 2.1	5050 5109 5050	EAST BAY AREA ABOVI	E HAYWARD F.	AULT 2-09.0	1		
		12-15-70 1-15-71 3-02-71 3-17-71 3-30-71 4-28-71 5-26-71 6-24-71 7-30-71 8-31-71 9-28-71	0.5 0.3 2.7 1.4 1.7 3.8 4.4 4.9 5.4 5.8	6.5 6.7 4.3 5.6 5.3 3.2 2.6 2.1 1.6 1.2	5050 5050 5050 5109 5050 5050 5050 5050	04s/01w-35P03M	115.3	11-05-70 12-01-70 1-05-71 2-02-71 3-29-71 5-04-71 6-04-71 6-28-71 8-02-71 8-30-71 9-27-71	136.9 135.3 136.8 137.3 138.5 140.2 142.0 144.0 145.1 145.9	-21.6 -20.0 -21.5 -22.0 -23.2 -24.9 -26.7 -28.7 -29.8 -30.6 -31.2	5401 5401 5401 5401 5401 5401 5401 5401
05N/02W-27J02M	24.0	10-16-70 10-26-70	7.9 5.7	16.1 18.3	5050 5109	EAST BAY AREA UPPE	R AQUIFER 2	-09.01			
		11-16-70 12-15-70 1-15-71 3-04-71 3-17-71 4-28-71 4-28-71 6-24-71 7-30-71 8-31-71 9-28-71	(2) 31.9 5.6	18.2 17.5 -6.0 -7.9 18.4 -1.6 18.1 17.8 16.9	5050 5050 5050 5050 5050 5050 5050 505	03S/02W-08M03M	48.0	10-08-70 11-04-70 12-02-70 12-30-70 1-27-71 2-24-71 3-24-71 4-21-71 5-19-71 6-16-71 8-11-71	19.7 17.9 16.4 15.2 15.0 15.4 14.7 16.0 17.2 17.1 17.0	28.3 30.1 31.6 32.8 33.0 32.6 33.3 32.0 30.8 30.9 31.0 30.5	5100 5100 5100 5100 5100 5100 5100 5100
05N/02W-29R01M	46.0	10-26-70 3-18-71	13.2 (1) 15.2	32.8 30.8	5109 5109	03S/02W-08R05M	64.0	9-08-71		29.5	5100
05N/02W-30J01M	65.0	10-16-70 11-16-70	20.7 22.2	44.3 42.8 46.7	5050 5050 5050	OSS, GEN-OOKOSH	04.0	4-00-71 9-00-71	30.1 31.5	33.9 32.5	5100 5100
		12-15-70 1-15-71 3-02-71 3-30-71 4-28-71 5-25-71 6-24-71 7-30-71 8-31-71 9-28-71	18.3 17.1 20.1 20.7 21.2 15.0 (1) 16.9 18.2 19.3	46.7 47.9 44.9 44.3 43.8 50.0 48.1 46.8 45.7	5050 5050 5050 5050 5050 5050 5050 505	03S/02W-19J01M	30.0	10-08-70 11-04-70 12-02-70 12-30-70 1-27-71 2-24-71 3-24-71 4-21-71 5-19-71 6-16-71 8-11-71 9-08-71	9.9 8.8 9.0 8.1 8.6 7.8 9.7 8.7 8.9 9.3 9.6	20.1 21.2 21.0 21.9 21.4 22.2 20.3 21.3 21.1 20.7 20.4	5100 5100 5100 5100 5100 5100 5100 5100

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUNO SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
EAST BAY UPPER AQUI	FER 2-09.01	(Continued	)			SOUTH BAY AREA 2-09	.02 (Contin	nued)			
03S/03W-24Q02M	7.0	10-00-70 ( 4-00-71 ( 9-00-71		-2.1 -1.9 -1.9	5100 5100 5100	06s/01E-30M01M	43.0	1-06-71 2-19-71 3-15-71	46.6 40.4 41.1	-3.6 2.6 1.9	2400 2400 2400
04S/01W-18H03M	47.0	11-03-70 12-01-70 1-05-71 2-01-71 3-29-71	63.1 61.0 57.5 56.0 55.5	-16.1 -14.0 -10.5 -9.0 -8.5	5401 5401 5401 5401 5401			5-13-71 6-15-71 7-14-71 8-11-71 9-13-71	59.6 (1) 82.7 85.8 84.8	-16.6 -39.7 -42.8 -41.8	2400 2400 2400 2400 2400
		5-03-71 6-02-71 6-29-71 7-28-71 9-02-71 9-28-71	55.2 57.1 58.3 59.3 60.7 61.9	-8.2 -10.1 -11.3 -12.3 -13.7 -14.9	5401 5401 5401 5401 5401 5401	06S/02W-16R01M	48.0	1-07-71 2-22-71 3-18-71 4-16-71 5-13-71 6-17-71 7-19-71	73.2 70.0 68.9 71.6 75.1 76.2 73.7	-25.2 -22.0 -20.9 -23.6 -27.1 -28.2 -25.7	2400 2400 2400 2400 2400 2400 2400
04S/01W-22P05M	80.0	10-00-70 4-00-71 9-00-71	47.2 40.0 59.6	32.8 40.0 20.4	5100 5100 5100			8-16-71 9-15-71	78.8 73.8	-30.8 -25.8	2400 2400
04S/02W-13C02M	36.4	3-29-71 9-28-71	40.9 44.8	-4.5 -8.4	5401 5401	06S/02W-25C01M	73.0	10-07-70 3-18-71 4-19-71	102.1 90.4 90.0	-29.1 -17.4 -17.0	2400 2400 2400
04S/02W-24Q02M	33.4	10-00-70 4-00-71 9-00-71	45.1 42.6 44.4	-11.7 -9.2 -11.0	5100 5100 5100			5-14-71 6-17-71 7-19-71 8-17-71 9-16-71	89.6 92.3 93.1 94.0 94.0	-16.6 -19.3 -20.1 -21.0 -21.0	2400 2400 2400 2400 2400
EAST BAY AREA LOWER	AQUIFER 2-	09.01				07S/01E-01K01M	179.0	1-18-71 3-10-71	126.8 124.3	52.2 54.7	2400 2400
02s/03w-36R01M	45.0	10-00-70 ( 4-00-71 ( 9-00-71	1) 178.0 77.5	-135.5 -133.0 -32.5	5100 5100 5100			4-12-71 5-10-71 6-09-71 7-08-71	124.0 123.1 122.3 120.5	55.0 55.9 56.7 58.5	2400 2400 2400 2400
03S/03W-24J01M	11.0	10-08-70 11-04-70 12-02-70 12-30-70	69.5 58.0 55.0 55.0	-58.5 -47.0 -44.0 -44.0	5100 5100 5100 5100	07S/01E-31A02M	151.6	8-06-71 9-08-71 10-01-70	119.5 117.5	59.5 61.5 8.2	2400 2400 2400
		1-27-71 2-24-71 3-24-71 4-21-71 5-19-71 6-16-71 7-14-71 8-11-71	51.7 51.0 49.1 49.9 50.4 52.6 53.3 58.4	-40.7 -40.0 -38.1 -38.9 -39.4 -41.6 -42.3 -47.4	5100 5100 5100 5100 5100 5100 5100 5100			10-29-70 11-30-70 12-30-70 2-01-71 3-01-71 3-30-71 4-29-71 6-02-71	146.3 129.3 120.4 112.2 110.9 110.3 112.0	5.3 22.3 31.2 39.4 40.7 41.3 39.6 39.9	2400 2400 2400 2400 2400 2400 2400 2400
03s/03w-36R03M	5.0	9-08-71 10-00-70 4-00-71 9-00-71	67.2 66.8 55.0	-56.2 -61.8 -50.0	5100 5100 5100 5100			7-01-71 7-29-71 8-31-71 9-30-71	114.8 128.7 133.6 135.1	36.8 22.9 18.0 16.5	2400 2400 2400 2400
04S/02W-02Q01M	26.0	3-22-71	63.9 55.4	-58.9 -29.4	5401	07S/02E-07P01M	130.0	1-12-71 3-08-71	91.8 85.6	38.2 44.4	2400 2400
05S/01W-09M01M	15.0	3-26-71	31.1	-16.1	5401			4-09-71 5-07-71 6-08-71 7-08-71	79.7 80.0 87.3 80.2	50.3 50.0 42.7 49.8	2400 2400 2400 2400
SOUTH BAY AREA 2-09								8-09-71 9-08-71	79.8 79.6	50.2	2400 2400
06S/01E-21R01M	138.0	10-05-70 11-01-70 11-30-70 12-29-70 2-01-71 3-02-71 4-01-71	164.7 156.0 151.9 144.8 148.4 148.8 134.5	-26.7 -18.0 -13.9 -6.8 -10.4 -10.8 3.5	2400 2400 2400 2400 2400 2400 2400	07S/02E-17H01M	349.0	3-09-71 5-07-71 6-08-71 7-08-71 8-06-71 (	96.7 98.0 (1) 88.8 2) 89.2 89.5	252.3 251.0 260.2 259.8 259.5	2400 2400 2400 2400 2400 2400
		4-30-71 5-28-71 6-30-71 7-29-71 8-31-71	132.8 142.8 147.2 156.7 161.0	5.2 -4.8 -9.2 -18.7 -23.0	2400 2400 2400 2400 2400	07S/02E-33C01M	462.0	1-12-71 3-09-71 4-12-71 5-07-71 6-08-71	18.1 19.0 18.1 18.0 18.2	443.9 443.9 444.0 443.8	2400 2400 2400 2400 2400
06S/01E-23P02M	240.5	11-02-70 11-30-70 12-29-70	123.3 126.8 125.5	117.2 113.7 115.0	2400 2400 2400			7-07-71 8-06-71 9-08-71	17.8 18.8 19.2	444.2 443.2 442.8	2400 2400 2400 2400
		2-01-71 3-02-71 4-01-71 4-30-71 5-28-71 6-30-71 7-29-71 8-30-71	122.5 123.0 123.2 124.6 124.6 124.7 125.9 126.0	118.0 117.5 117.3 115.9 115.9 115.8 114.6 114.5	2400 2400 2400 2400 2400 2400 2400 2400	07S/02W-04B01M	218.0	10-07-70 1-08-71 2-26-71 3-18-71 4-19-71 ( 5-14-71 ( 6-17-71 ( 8-31-71 ( 9-30-71 (	6) 223.9 6) 225.3 6) 225.9 6) 227.4	2.6 -9.8 16.9 11.8 -4.7 -5.9 -7.3 -7.9 -9.4	2400 2400 2400 2400 2400 2400 2400 2400

STATE WELL NUMBER	GROUND SURFACE ELE VATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
SOUTH BAY AREA 2-09	.02 (Contir	nued)				LIVERMORE VALLEY 2-	10.00 (Cont	tinued)			
07S/02W-22A01M	340.0	10-15-70 2-08-71 3-19-71	26.8 25.1 25.4	313.2 314.9 314.6	2400 2400 2400	02S/01W-22K01M	440.0	10-00-70 4-00-71 9-00-71	20.4 14.3 17.7	419.6 425.7 422.3	5100 5100 5100
		4-21-71 5-17-71 6-18-71 7-19-71 8-17-71	26.4 26.6 25.4 26.0 26.9	313.6 313.4 314.6 314.0 313.1	2400 2400 2400 2400 2400	02S/01W-26C01M	416.9	10-00-70 4-00-71 9-00-71	38.2 29.4 32.4	378.7 387.5 384.5	5100 5100 5100
08S/02E-20F03M	209.0	9-16-71 11-24-70 2-22-71	26.6 24.6 21.2	313.4 184.4 187.8	2400 2400 2400	03S/01E-01G02M	418.0	10-00-70 4-00-71 9-00-71	50.2 26.1 48.3	367.8 391.9 369.7	5100 5100 5100
		3-29-71 4-29-71 5-26-71 6-25-71	27.5 28.6 26.6 27.6	181.5 180.4 182.4 181.4	2400 2400 2400 2400 2400	03S/01E-02J01M	408.0	10-00-70 4-00-71 9-00-71	50.8 49.8 50.3	357.2 358.2 357.7	5100 5100 5100
08S/02E-22D01M	239.7	8-25-71 11-24-70	27.6	181.4 228.3	2400 2400	03S/01E-03J01M	361.0	10-00-70 4-00-71 9-00-71	22.4 22.3 23.5	338.6 338.7 337.5	5100 5100 5100
		2-22-71 (6 3-29-71 4-29-71 5-26-71 6-25-71	16.6 11.2 11.2 11.5	216.3 223.1 228.5 228.5 228.2	2400 2400 2400 2400 2400	03S/01E-05M01M	333.7	10-00-70 4-00-71 9-00-71	6.0 5.5 14.7	327.7 328.2 319.0	5100 5100 5100
09S/02E-01J01M	314.6	8-25-71 11 04-70	31.2 31.8	228.3 283.4 282.8	2400 2400 2400 2400	03 S/01E-05R02M	340.0	10-00-70 ( 4-00-71 9-00-71	79.8 77.1 94.6	260.2 262.9 245.4	5100 5100 5100
		11-30-70 12-31-70 1-29-71 2-26-71 3-31-71	29.6 30.2 33.3 30.3	285.0 284.4 281.3 284.3	2400 2400 2400 2400 2400	03S/01E-06C01M	334.7	10-00-70 4-00-71 9-00-71	25.6 22.5 26.7	309.1 312.2 308.0	5100 5100 5100
		4-30-71 6-01-71 7-02-71 (2 7-30-71 8-30-71	32.7 37.8	281.9 276.8 273.2 272.9 278.3	2400 2400 2400 2400 2400 2400	03S/01E-08J02M	339.6	10-14-70 11-25-70 12-09-70 1-06-71 2-03-71 3-03-71	87.2 85.0 82.9 80.1 77.4 82.0	252.4 254.6 256.7 259.5 262.2 257.6	5100 5100 5100 5100 5100 5100
09S/02E-02J02M	287.6	12-10-70 3-03-71 4-02-71 5-03-71 6-01-71 7-02-71 8-02-71	18.3 18.2 19.2 19.2 22.0 25.6 26.6	269.3 269.4 268.4 268.4 265.6 262.0 261.0	2400 2400 2400 2400 2400 2400 2400			4-14-71 4-28-71 6-09-71 7-07-71 8-04-71 9-01-71	73.0 71.8 76.2 80.1 84.8 85.0	266.6 267.8 263.4 259.5 254.8 254.6	5100 5100 5100 5100 5100 5100
		9-01-71 (4		259.4	2400	03s/01E-09R02M	353.2	10-14-70 3-03-71	139.5 95.2	213.7 258.0	5100 5100
LIVERMORE VALLEY 2-	10.00					03S/01E-10Q02M	368.7	10-14-70 3-03-71	135.0 107.0	233.7 261.7	5100 5100
02S/01E-31E01M	340.0	10-00-70 4-00-71 9-00-71	30.7 17.1 28.2	309.3 322.9 311.8	5100 5100 5100	03S/01E-11H01M	372.9	10-00-70 4-00-71 9-00-71	138.0 120.3 144.5	234.9 252.6 228.4	5100 5100 5100
02S/02E-21F01M	580.0	10-00-70 4-00-71 9-00-71	50.6 45.5 48.5	529.4 534.5 531.5	5100 5100 5100	03S/01E-12P0IM	404.0	10-00-70 ( 4-00-71 9-00-71	1) 195.3 150.0 168.9	208.7 254.0 235.1	5100 5100 5100
02S/02E-22N02M	545.0	10-00-70 4-00-71 9-00-71	24.6 24.1 24.7	520.4 520.9 520.3	5100 5100 5100	03S/01E-13P01M	396.5	10-00-70 ( 4-00-71 9-00-71	1) 148.6 138.4 139.9	247.9 258.1 256.6	5100 5100 5100
02S/02E-27K01M	520.0	10-00-70 4-00-71 9-00-71	8.7 11.3	508.9 511.3 508.7	5100 5100 5100	03S/01E-14F01M	379.2	10-00-70 4-00-71 9-00-71	72.4 69.7 90.1	306.8 309.5 289.1	5100 5100 5100
02S/02E-28J01M	520.0	10-00-70 4-00-71 9-00-71	7.8 6.8 24.1	512.2 513.2 495.9	5100 5100 5100	03S/01E-15L01M	363.0	10-00-70 ( 4-00-71 9-00-71	(1) 127.5 80.7 106.4	235.5 282.3 256.6	5100 5100 5100
02S/02E-29A02M	552.0	10-00-70	(0)		5100	03S/01E-16D02M	339.4	10-14-70	104.2	235.2	5100
02S/02E-29A03M	552.0	10-00-70 4-00-71 9-00-71 (	31.4 29.0 1) 30.9	520.6 523.0 521.1	5100 5100 5100	033/012-10M02FI	337.4	11-25-70 12-09-70 1-06-71 2-03-71	99.2 97.5 92.4 85.8	240.2 241.9 247.0 253.6	5100 5100 5100 5100
02S/02E-32C01M	520.0	10-00-70 4-00-71 9-00-71	24.7 23.9 (7)	495.3 496.1	5100 5100 5100			3-03-71 4-14-71 4-28-71 6-09-71	81.2 80.0 78.2 84.0	258.2 259.4 261.2 255.4	5100 5100 5100 5100
02S/02E-35F0IM	522.0	10-00-70 4-00-71 9-00-71	14.6 12.2 13.5	507.4 509.8 508.5	5100 5100 5100			7-07-71 8-04-71 9-01-71	88.3 91.0 93.7	251.1 248.4 245.7	5100 5100 5100
02s/02E-36F01M	533.0	10-00-70 4-00-71 9-00-71	28.0 27.0 26.2	505.0 506.0 506.8	5100 5100 5100						

TABLE C-2 (Cont.)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENC SUPPLYIN DATA
LIVERMORE VALLEY 2-	10.00 (Con	inued)				LIVERMORE VALLEY 2	-10.00 (Cont	inued)			
03S/01E-16D06M	339.4	10-14-70	110.7	228.7	5100	03S/02E-06P01M	414.0	10-00-70	41.0	373.0	5100
		11-25-70	99.0	240.4	5100			4-00-71	37.0	377.0	5100
		12-09-70	98.2 89.4	241.2 250.0	5100 5100			9-00-71	36.5	377.5	5100
		1-06-71 2-03-71	84.5	254.9	5100	03S/02E-07P02M	440.0	10-00-70	111.6	328.4	5100
		3-03-71	81.3	258.1	5100	000,022 0,1022	440.0	4-00-71	97.6	342.4	5100
		4-14-71	81.2	258.2	5100			9-00-71	112.1	327.9	5100
		4-28-71	81.9	257.5	5100						
		6-09-71	88.7	250.7	5100	03S/02E-08H01M	472.5	10-00-70	134.0	338.5	5100
		7-07-71 8-04-71	96.2 100.7	243.2 238.7	5100 5100			4-00-71 9-00-71	71.8 88.0	400.7 384.5	5100
		9-01-71	104.6	234.8	5100			9-00-71	00.0	304.3	5100
		, 01 ,1	20410	204.0	3100	03S/02E-08P02M	465.0	10-14-70	84.0	381.0	5100
03S/01E-16D07M	339.4	10-14-70	115.3	224.1	5100			3-03-71	67.5	397.5	5100
		11-25-70	101.3	238.1	5100						
		12-09-70	101.3	238.1	5100	03S/02E-09Q01M	518.0	10-00-70	154.0	364.0	5100
		1-06-71 2-03-71	90.6 85.3	248.8 254.1	5100 5100			4-00-71 9-00-71	93.0 125.6	425.0 392.4	5100 5100
		3-03-71	82.6	256.8	5100			9-00-71	123.0	392.4	3100
		4-14-71	83.1	256.3	5100	03S/02E-11R03M	600.0	10-00-70	120.0	480.0	5100
		4-28-71	82.3	257.1	5100	İ		4-00-71	114.0	486.0	5100
		6-09-71	93.6	245.8	5100			9-00-71	113.7	486.3	5100
		7-07-71	101.2	238.2	5100	020/025 3350/34		10 00 70	0= /		
		8-04-71 9-01-71	104.4 109.3	235.0 230.1	5100 5100	03S/02E-11R04M	600.0	10-00-70 4-00-71	87.4	512.6	5100 5100
		9-01-71	109.5	230.1	3100			4-00-71	(0)		5100
03S/01E-16R01M	358.0	10-00-70	126.3	231.7	5100	03S/02E-14Q01M	649.0	10-00-70	10.5	638.5	5100
		4-00-71	68.5	289.5	5100			4-00-71	7.4	641.6	5100
		9-00-71	97.4	260.6	5100			9-00-71	12.4	636.6	5100
020/015 104014	220.0	10 17 70	70.0	240.0	5100	020/025 1570/14	F. ( 0 0	10 00 70			5100
03S/01E-18A01M	320.0	10-14-70 11-25-70	72.0 84.0	248.0 236.0	5100 5100	03S/02E-15B04M	549.0	10-00-70 4-00-71	56.6 41.7	492.4 507.3	5100 5100
	•	12-09-70 (		242.0	5100			9-00-71	53.3	495.7	5100
		1-06-71	91.0	229.0	5100			, 00 ,1	30.0	,,,,,	3100
		2-03-71	64.0	256.0	5100	03S/02E-15R01M	599.0	10-00-70	13.0	586.0	5100
		3-03-71	64.0	256.0	5100			4-00-71	7.8	591.2	5100
		4-14-71 (		254.0	5100			9-00-71	15.8	583.2	5100
		4-28-71 6-09-71	62.0 69.0	258.0 251.0	5100 5100	03S/02E-16E02M	508.0	10-14-70	98.8	409.2	5100
		7-07-71	72.0	248.0	5100	033702E-10E02M	300.0	11-25-70	92.4	415.6	5100
		8-04-71	70.0	250.0	5100			12-09-70	97.9	410.1	5100
		9-01-71	69.6	250.4	5100			1-06-71	92.4	415.6	5100
								2-03-71	93.1	414.9	5100
03S/01E-18M05M	320.0	10-00-70	86.7	233.3	5100			3-03-71	92.7	415.3	5100
		4-00-71 9-00-71	76.2 71.3	243.8 248.7	5100 5100			4-14-71 4-28-71	92.9 91.9	415.1 416.1	5100 5100
		3-00-71	71.5	240.7	3100				(1) 111.7	396.3	5100
03S/01E-19A03M	328.0	10-14-70	83.2	244.8	5100				(1) 121.4	386.6	5100
		11-25-70	85.7	242.3	5100			8-04-71		408.5	5100
		12-09-70	84.5	243.5	5100			9-01-71	93.7	414.3	5100
		1-06-71	70.7	257.3	5100	02.0 / 02.0 1 / 1/02.14	520.0	10 00 70	145.6	201 1	F 1 0 0
		2-03-71 3-03-71	66.1 71.4	261.9 256.6	5100 5100	03S/02E-16N01M	530.0	10-00-70 4-00-71	145.6 144.8	384.4 385.2	5100 5100
		4-14-71	74.5	253.5	5100			9-00-71	127.2	402.8	5100
		4-28-71	74.9	253.1	5100			, ,-	,		
		6-09-71	68.6	259.4	5100	03S/02E-19D01M	411.6	10-14-70	183.0	228.6	5100
		7-07-71	70.8	257.2	5100			11-25-70	171.4	240.2	5100
		8-04-71	75.4	252.6	5100			12-09-70	165.3	246.3	5100
		9-01-71	75.4	252.6	5100			1-06-71 2-03-71	157.2 151.0	254.4 260.6	5100 5100
03S/01E-20B02M	340.0	10-14-70 (	1) 108.0	232.0	5100			3-03-71	146.7	264.9	5100
,		3-03-71	77.5	262.5	5100			4-14-71	143.2	268.4	5100
								4-28-71	143.2	268.4	5100
03S/01E-23J01M	435.0	10-00-70 (		344.0	5100			6-09-71	145.5	266.1	5100
		4-00-71	76.0	359.0	5100			7-07-71	153.0	258.6	5100
		9-00-71	79.0	356.0	5100			8-04-71 9-01-71	163.8 174.0	247.8 237.6	5100 5100
03S/01E-24R01M	421.9	10-00-70	18.0	403.9	5100			7-01-11	1/4.0	237.0	5100
		4-00-71	15.0	406.9	5100	03S/02E-19H03M	460.0	10-00-70	95.0	365.0	5100
		9-00-71	18.7	403.2	5100			4-00-71	94.9	365.1	510
								9-00-71	96.9	363.1	510
03S/01E-29E03M	311.0	10-00-70	47.2	263.8	5100 5100	036/036 3311032	620.0	10-00 70	/.1 3	578.7	5100
		4-00-71 9-00-71	46.0 46.9	265.0 264.1	5100	03S/02E-22H02M	620.0	10-00-70 4-00-71	41.3 20.0	600.0	510
		2 00-71	40.7	~04·1	2100			9-00-71	26.2	593.8	510
03S/02E-01G01M	580.0	10-00-70	87.7	492.3	5100						2 - 0
		4-00-71	81.5	498.5	5100	03S/02E-22M01M	605.0	10-00-70	154.5	450.5	510
		9-00-71	79.7	500.3	5100			4-00-71	149.5	455.5	5100
036/025 034014	520.2	10 00 70	51.2	460 0	5100			9-00-71	145.1	459.9	510
03S/02E-03K01M	520.2	10-00-70 4-00-71	51.2 48.2	469.0 472.0	5100 5100	03S/02E-26J01M	720.0	10-00-70	26.5	693.5	510
		9-00-71	51.7	468.5	5100	023/07E-7010IU	,20.0	4-00-71	19.5	700.5	510
		2 00 - 71	22.1	-00.5	3100			9-00-71	23.5	696.5	510
03S/02E-03P01M	545.0	10-00-70	69.3	475.7	5100						
		4-00-71	53.3	491.7	5100	03S/02E-28P01M	505.0	10-00-70	18.0	487.0	5100
		9-00-71	64.3	480.7	5100			4-00-71	17.0	488.0	5100
								9-00-71	17.0	488.0	5100

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
LIVERMORE VALLEY 2-	10.00 (Con	tinued)				PAJARO VALLEY 3-02.	.00 (Continu	ued)			
03S/02E-29D01M	466.4	10-00-70 4-00-71 9-00-71	62.9 56.1 68.4	403.5 410.3 398.0	5100 5100 5100	13S/02E 06E03M	34.4	11-19-70 1-00-71 2-00-71 3-00-71	29.8 26.0 26.0 26.3	4.6 8.4 8.4 8.1	2100 2100 2100 2100
03S/02E-29P01M	476.6	10-00-70 4-00-71 9-00-71	9.5 9.6 12.3	467.1 467.0 464.3	5100 5100 5100	GILROY-HOLLISTER VA	ALLEY 3-03.		20.3	0.1	2100
03S/03E-07M02M	625.0	10-00-70 4-00-71	52.7 52.2	572.3 572.8	5100 5100	SOUTH SANTA CLARA (	COUNTY 3-03	.01			
		9-00-71	50.4	574.6	5100	09S/03E-16J01M	385.7	9-08-70 3-05-71	87.6 41.6	298.1 344.1	2400 2400
03S/03E-17N01M	860.0	10-00-70 4-00-71 9-00-71	45.0 33.4 43.6	815.0 826.6 816.4	5100 5100 5100	09S/03E-21K02M	361.6	10-09-70 3-05-71	55.4 54.7	306.2 306.9	2400 2400
03S/03E-19D01M	712.0	10-00-70 4-00-71 9-00-71	(7) (7) 32.6	679.4	5100 5100 5100	09S/03E-22B03M	379.1	9-01-70 3-31-71	80.4 78.5	298.7 300.6	2400 2400
03S/01W-01B01M	332.0	10-00-70	42.0	290.0	5100	09S/03E-23E01M	362.5	9-04-70 3-05-71	97.6 73.6	264.9 288.9	2400 2400
		4-00-71 9-00-71	30.3 50.0	301.7 282.0	5100 5100	09S/03E-26P01M	329.1	10-05-70 4-06-71	61.9 46.2	267.2 282.9	2400 2400
03S/01W-02A01M	370.0	10-00-70 4-00-71 9-00-71	40.0 27.2 35.0	330.0 342.8 335.0	5100 5100 5100	09S/03E-29B01M	397.6	10-16-70 5-03-71	13.4 9.3	384.2 388.3	5050 5050
03s/01w-02R01M	380.0	10-00-70 4-00-71	13.8 12.8	366.2 367.2	5100 5100	09S/03E-34Q01M	314.2	10-05-70 3-05-71	38.1 25.2	276.1 289.0	2400 2400
03S/01W-12G03M	320.0	9-00-71 10-00-70	15.3 14.4	364.7 305.6	5100 5100	09S/03E-36F03M	322.0	9-04-70 3-05-71	86.5 67.3	235.5 254.7	2400 2400
		4-00-71	7.9	312.1	5100	10S/03E-02K03M	290.0	10-16-70 5-03-71	51.2 34.2	238.8 255.8	5050 5050
C	ENTRAL COAS	STAL REGION	3-00.00			10S/03E-13J03M	251.0	10-15-70	56.9	194.1	5050
PAJARO VALLEY 3-02.				22.5	****			5-03-71	32.9	218.1	5050
11S/02E-27A01M	141.0	10-16-70 5-04-71	107.5 127.5	33.5 13.5	5050 5050	10S/03E-36E03M	220.0	10-16-70 5-03-71	(7) (7)		5050 5050
12S/01E-24G01M	9.4	10-16-70 5-04-71	(1) 16.8	-7.4	5050 5050	10S/04E-18G02M	259.5	10-15-70 - <b>5</b> -03-71	58.4 42.4	201.1 217.1	5050 5050
12S/02E-11E04M	36.0	10-16-70 5-04-71	31.2 26.2	4.8 9.8	5050 5050	10S/04E-35E01M	248.0	10-16-70 5-03-71	(9) 90.5	157.5	5050 5050
12S/02E-16J01M	20.5	10-16-70 5-04-71	21.7 19.7	-1.2 0.8	5050 5050	11S/04E-08K02M	179.0	10-16-70 5-03-71	29.7 (1)	149.3	5050 5050
12S/02E~31K01M	30.0	11-20-70	30.2	-0.2	2100	SAN BENITO COUNTY 3	3-03.02				
13S/01E-01A01M	5.0	11-19-70	3.7	1.3	2100	11S/05E-13D01M	255.7	10-15-70	22.8	232.9	5050
13S/02E-06B01M	15.0	10-16-70 5-04-71	(9) (9)		5050 5050			5-03-71	21.8	233.9	5050
13S/02E-06C01M	26.0	10-00-70	(1)		2100	12S/04E-20C01M	152.9	3-00-71	29.5	123.4	5151
		11-00-70 12-00-70 1-00-71	24.2 (7) 21.2	1.8	2100 2100 2100	12S/05E-10R01M	211.6	10-15-70 5-03-71	78.8 74.6	132.8 137.0	5050 5050
		2-00-71 3-00-71	21.1 (1)	4.9	2100 2100	12S/05E-12M04M	215.0	10-15-70 5-03-71	76.4 67.9	138.6 147.1	5050 5050
		4-00-71 5-00-71 6-00-71	21.2 23.0 23.9	4.8 3.0 2.1	2100 2100 2100	12S/05E-33A02M	280.0	10-15-70 5-03-71	78.0 76.0	202.0 204.0	5050 5050
		7-00-71 8-00-71 9-00-71	24.3 (1) 27.0	1.7	2100 2100 2100	12S/05E-35N02M	303.0	10-15-70 5-03-71	96.4 111.4	206.6 191.6	5050 5050
13S/02E-06E02M	27.8	10-00-70 11-00-70	(1) 24.0	3.8	2100 2100	13S/05E-11Q01M	325.5	3-00-71	27.1	298.4	5151
		12-00-70 1-00-71	(7) 22.0	5.8	2100 2100	SALINAS VALLEY 3-04	4.00				
		2-00-71 3-00-71	21.7 20.8	6.1 7.0	2100 2100	PRESSURE AREA 180-1	FOOT AQUIFE	R 3-04.01			
		4-00-71 5-00-71	21.3 25.4	6.5 2.4	2100	14S/02E-03C01M	10.6	11-20-70	17.7	-7.1	2100
		6-00-71 7-00-71 8-00-71 9-00-71	25.9 30.1 (1) (1)	1.9	2100 2100 2100 2100	15S/02E-01Q01M	42.0	1-00-71 2-00-71 3-00-71 7-00-71	35.0 33.2 31.0 62.7	7.0 8.8 11.0 -20.7	2100 2100 2100 2100

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
PRESSURE AREA 180-F	OOT AQUIFER	3-04.01 (0	Continued)			UPPER VALLEY AREA	3-04.05 (Co	ntinued)		·	-
15S/03E-16M01M	58.0	10-00-70 11-00-70 12-03-70 1-00-71 2-00-71 3-00-71 4-00-71 5-00-71 7-00-71	53.0 (7) 40.0 31.5 34.4 35.5 54.3 55.7 57.9 68.0	5.0 18.0 26.5 23.6 22.5 3.7 2.3 0.1 -10.0	2100 2100 2100 2100 2100 2100 2100 2100	21s/09E-07J02M	364.0	10-00-70 11-00-70 1-00-71 2-00-71 3-00-71 4-00-71 6-00-71 8-00-71 9-00-71	24.0 23.9 23.6 23.7 22.0 (1) 24.0 (1) 25.0	340.0 340.1 340.4 340.3 342.0 340.0	2100 2100 2100 2100 2100 2100 2100 2100
		8-00-71 9-00-71	67.0 64.0	-9.0 -6.0	2100 2100	21S/10E-32N01M 22S/10E-16K01M	400.0 472.0	11-19-70	23.0	377.0 400.6	2100
15S/04E-33A01M	125.0	12-10-70	(4)		2100						
16S/04E-11D01M	110.0	11-24-70	(4)		2100	PASO ROBLES BASIN		2 01 71	26.0		
PRESSURE AREA 400-F	OOT AQUIFER	3-04.01				24\$/11E-25N01M	603.3	2-01-71 4-19-71	36.8 36.8	566.5 566.5	5117 5117
13S/02E-31Q01M	11.0	11-20-70	15.8	-4.8	2100	24s/11E-33R01M	565.0	2-01-71 4-19-71	31.0 31.0	534.0 534.0	5117 5117
14S/03E-18J01M	69.0	10-00-70 11-27-70 12-00-70 1-00-71	86.8 77.0 (7) 67.0	-17.8 -8.0	2100 2100 2100 2100	24S/11E-35D01M	572.1	12-01-70 4-19-71	31.0 31.0	541.1 541.1	5117 5117
		2-00-71 3-00-71	67.3 70.0	1.7	2100 2100	24 <b>s</b> /11E-35J01M	616.8	4-19-71	59.8	557.0	5117
		4-00-71 5-00-71	72.2	-3.2	2100 2100	24S/15E-27L01M	1211.5	11-12-70 4-02-71	21.4 16.5	1190.1 1195.0	5117 5117
		6-00-71 7-00-71 8-00-71 9-00-71	96.0 (7) 101.6 98.8	-27.0 -32.6 -29.8	2100 2100 2100 2100	24S/15E-33CO2M	1225.0	11-12-70 4-21-71	25.0 22.6	1200.0 1202.4	5117 5117
EAST SIDE AREA 3-04	.02					25S/11E-35G01M	895.0	10-27-70 4-16-71	65.0 58.5	830.0 836.5	5117 5117
16S/05E-17R01M	181.0	11-22-70	107.5	73.5	2100	25S/11E-36N02M	837.5	10-27-70 4-16-71	47.0 42.5	790.5 795.0	5117 5117
ARROYO SECO CONE 3-	04.04					25S/12E-17J01M	640.0	10-28-70 4-16-71	21.0	619.0 638.0	5117 5117
18S/06E-15M01M	277.0	10-00-70 11-00-70 2-00-71 3-00-71	94.0 99.5 88.0 89.9	183.0 177.5 189.0 187.1	2100 2100 2100 2100	25S/12E-17R01M	640.0	10-28-70 4-16-71	39.0 10.0	601.0 630.0	5117 5117
		4-00-71 5-00-71 6-00-71	(1) 90.9 95.9	186.1 181.1	2100 2100 2100	25S/12E-26K01M	749.0	4-21-71 5-25-71 8-24-71	114.0 128.0 192.1	635.0 621.0 556.9	5117 5117 5117
		7-00-71 8-00-71 9-00-71	99.1 (1) 103.0	177.9 174.0	2100 2100 2100	25S/12E-28N01M	639.0	10-30-70 4-21-71	22.5 12.4	616.5 626.6	5117 5117
19S/06E-11C01M	373.0	10-00-70 11-00-70 1-00-71	188.0 177.0 156.6	185.0 196.0 216.4	2100 2100 2100	25S/13E-11E01M	1185.0	10-30-70 4-21-71	56.1 (4)	1128.9	5117 5117
		2-00-71 3-00-71 4-00-71	155.5 (1) (1)	217.5	2100 2100 2100	25S/13E-19R01M	915.0	10-30-70 4-02-71	174.7 176.2	740.3 738.8	5117 5117
		5-00-71 6-00-71 7-00-71 8-00-71	151.1 (1) 158.5 183.6	221.9 214.5 189.4	2100 2100 2100 2100	25S/16E-17L01M 26S/12E-04N01M	1164.5 675.0	11-12-70 4-21-71 10-24-70	27.3 27.2 45.9	1137.2 1137.3 629.1	5117 5117 5117
		9-00-71	186.0	187.0	2100	265/12E-04NUIN	6/3.0	4-16-71	42.7	632.3	5117
UPPER VALLEY AREA 3	-04.05					26S/12E-26E01M	840.0	10-30-70 4-16-71	195.0 191.5	645.0 648.5	5117 5117
19S/07E-10P01M	315.0	10-00-70 11-00-70 1-00-71	81.5 82.5 78.2	233.5 232.5 236.8	2100 2100 2100	26S/13E-05F01M	740.0	10-30-70 4-21-71	(1) 15.5	724.5	5117 5117
		2-00-71 3-00-71 4-00-71	80.8 81.0 90.4	234.2 234.0 224.6	2100 2100 2100 2100	26S/13E-10001M	800.0	10-30-70 4-21-71	74.0 56.4	726.0 743.6	5117 5117
		5-00-71 6-00-71 7-00-71	87.6 91.4 95.0	227.4 223.6 220.0	2100 2100 2100 2100	26S/14E-17L01M	949.0	10-30-70 4-07-71	36.0 40.6	913.0 908.4	5117 5117
		8-00-71 9-00-71	96.7 93.5	218.3 221.5	2100 2100	26S/14E-18Q01M	930.0	10-30-70 4-07-71	46.4 32.5	883.6 897.5	5117 5117
20S/08E-05R03M	337.0	1-00-71 2-00-71 3-00-71	67.4 67.0 (1)	269.6 270.0	2100 2100 2100	26S/14E-24B01M	1000.0	11-17-70 4-07-71	157.0 67.5	843.0 932.5	5117 5117
		4-00-71	70.4	266.6	2100	26S/14E-35D01M	1135.0	11-19-70 4-23-71	117.5 116.5	1017.5 1018.5	5117 5117

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
PASO ROBLES BASIN 3	3-0/-06-/0	ntinued)				CARMEL VALLEY 3-07.	00				
26S/15E-16P02M	1047.0	11-12-70	31.5	1015.5	5117	16S/01E-16L01M	75.0	10-00-70	18.3	56.7	2100
26S/15E-21P01M	1072.0	4-07-71 11-17-70 2-18-71 4-02-71 5-02-71	50.2 47.0 36.4 56.0 67.0	996.8 1025.0 1035.6 1016.0 1005.0	5117 5117 5117 5117 5117			12-00-70 2-00-71 3-00-71 4-00-71 5-00-71 6-00-71	19.3 17.4 17.3 18.7 21.0 18.3	55.7 57.6 57.7 56.3 54.0 56.7	2100 2100 2100 2100 2100 2100
26S/15E-28Q01M	1090.0	7-16-71 10-23-70	70.0 78.0	1002.0	5117 5117			7-00-71 8-00-71 9-00-71	23.7 (1) 19.2	51.3	2100 2100 2100 2100
26S/15E-29N0lM	1133.0	11-17-70 12-10-70 1-20-71 2-23-71 4-23-71 7-16-71 8-25-71	84.0 78.0 76.5 90.0 122.0 126.9	1049.0 1055.0 1056.5 1043.0 1011.0 1006.1	5117 5117 5117 5117 5117 5117 5117	16S/01E-22E01M	82.0	2-00-71 3-00-71 4-00-71 5-00-71 6-00-71 7-00-71 8-00-71 9-00-71	27.1 26.7 28.2 (1) 27.5 28.3 29.5 30.0	54.9 55.3 53.8 54.5 53.7 52.5 52.0	2100 2100 2100 2100 2100 2100 2100 2100
27S/12E-04F04M	701.0	10-27-70	19.8	681.2	5117	16S/01E-23F01M	109.0	10-00-70	29.0	80.0	2100
27S/12E-21C01M 27S/13E-24N01M	741.0 1030.0	10-27-70 1-20-71 2-23-71	16.4 16.5 15.6	724.6 1013.5 1014.4	5117 5117 5117			12-00-70 2-00-71 3-00-71 4-00-71	30.3 27.3 27.7 27.4	78.7 81.7 81.3 81.6	2100 2100 2100 2100
27S/13E-33L01M	1180.0	4-22-71 11-19-70 1-20-71 2-23-71	43.0 134.0 108.0 107.0	987.0 1046.0 1072.0 1073.0 1072.5	5117 5117 5117 5117 5117			5-00-71 6-00-71 7-00-71 8-00-71 9-00-71	25.8 27.2 26.7 30.1 34.1	83.2 81.8 82.3 78.9 74.9	2100 2100 2100 2100 2100
27S/15E-03E01M	1120.0	8-25-71 11-17-70 1-20-71 2-18-71 4-22-71 5-23-71 7-16-71 8-25-71	107.5 62.2 58.1 57.2 72.7 75.8 110.2 96.7	1072.3 1057.8 1061.9 1062.8 1047.3 1044.2 1009.8 1023.3	5117 5117 5117 5117 5117 5117 5117	16S/01E-25B01M	140.0	10-00-70 12-00-70 2-00-71 3-00-71 4-00-71 5-00-71 7-00-71 8-00-71	16.5 18.5 16.8 16.7 16.6 17.0 17.0	123.5 121.5 123.2 123.3 123.4 123.0 123.0	2100 2100 2100 2100 2100 2100 2100 2100
27S/15E-10R02M	1130.0	4-23-71	(1)		5117			9-00-71	(1)		2100
27S/16E-07P01M	1225.0	11-17-70 4-26-71	66.0 63.0	1159.0 1162.0	5117 5117						
27S/16E-35Q01M	1281.0	11-17-70 4-26-71	13.0 12.0	1268.0 1269.0	5117 5117						
28S/12E-25R01M	877.0	10-26-70 4-13-71	21.3 11.0	855.7 866.0	5117 5117						
28S/13E-04K01M	1199.5	11-19-70 4-22-71	54.8 46.5	1144.7 1153.0	5117 5117						
28S/13E-04K02M	1195.0	11-19-70 4-22-71	116.0 80.1	1079.0 1114.9	5117 5117						
28S/13E-31K01M	884.8	10-26-70 4-13-71	25.0 4.0	859.8 880.8	5117 5117						
28S/16E-23MO1M	1440.0	11-17-70 4-26-71	33.7 31.7	1406.3 1408.3	5117 5117						
29S/13E-05F03M	915.6	10-26-70 4-13-71	17.6 13.5	898.0 902.1	5117 5117						
29S/13E-05K02M	928.5	10-26-70 4-13-71	15.0 17.8	913.5 910.7	5117 5117						
29S/13E-06A01M	920.0	1 <b>0-26-7</b> 0 4-13-71	64.0 40.0	856.0 880.0	5117 5117						
29S/13E-08M01M	945.0	10-26-70	11.5	933.5	5117						
29S/13E-19H01M	1002.1	10-26-70 4-12-71	16.5 7.5	985.6 994.6	5117 5117						
SEASIDE AREA 3-04.	08										
14S/02E-31M01M	119.9	10-09-70 4-18-71 5-18-71	131.8 123.5 125.5	-11.9 -3.6 -5.6	5005 5005 5005						
15S/01E-14N01M	144.6	10-09-70 4-18-71 5-18-71	128.1 120.6 126.0	16.5 24.0 18.6	5005 5005 5005						

Appendix D: SURFACE WATER QUALITY



#### INTRODUCTION

This appendix contains surface water quality data collected from October 1, 1970, through September 30, 1971. The data were collected from 74 stream and estuarine stations in the Central Coastal Area by the U. S. Bureau of Reclamation, the U. S. Geological Survey, Santa Cruz County, and the Department of Water Resources. Only those stations from which data are collected routinely are shown on Figure D-1. The U. S. Bureau of Reclamation data were collected for its Delta-San Luis Drainage Surveillance Program and are basically confined to the Sacramento-San Joaquin Delta and Suisun Bay, the latter being included in this report.

The Department of Water Resources Laboratory uses procedures from "Standard Methods for the Examination of Water and Wastewater", 13th Edition, 1971, for the determination of mineral, nutrient, and biological constituents. Pesticides are determined in accordance with the "Guide to the Analysis of Pesticide Residues", U. S. Department of Health, Education and Welfare, 1965.

The U. S. Air Force at McClellan Air Force Base provides laboratory services for the Bureau of Reclamation. It uses procedures in accordance with the "FWPCA Methods for Chemical Analysis of Water and Wastes", November 1968, for all parameters.

Two numbering systems are used in this bulletin for identifying water quality stations. The first is for those stations for which the flow of water can be measured readily, as in streams and rivers. This system is described in Department of Water Resources Bulletin No. 157, "Index of Stream Gaging Stations in and Adjacent to California, 1970".

The second numbering system is used for those stations located in broad water bodies. This system is described as follows: The first two digits identify the hydrographic area as shown on the next page. The third digit identifies the type of water body, and for this publication is a "B" for Bay, "D" for Delta, "O" for Ocean, and "S" for Slough. The next digit is the last digit of the latitude in degrees, "3" for 33°, or "9" for 29°. The next three digits are the minutes of latitude to the tenth of a minute. The last four digits are longitude in the same manner as latitude.

Example: EO B 807.3 145.6

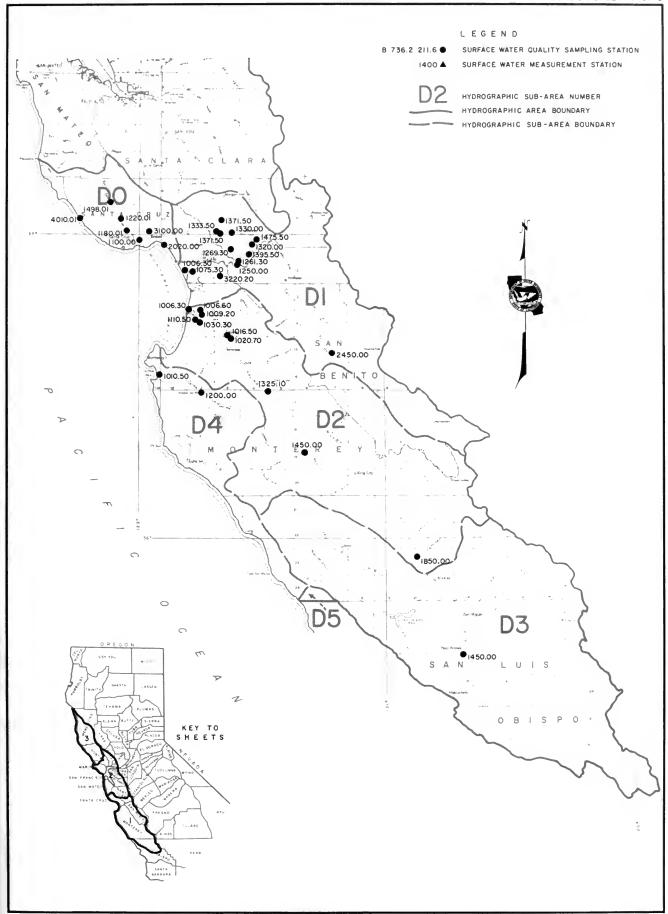
EO	San Francisco Bay
В	Water Body Bay
8	28° Latitude
07.3	07.3 Minutes Latitude
1	121° Longitude
45.6	45.6 Minutes Longitud

### SAMPLING STATION DATA AND INDEX

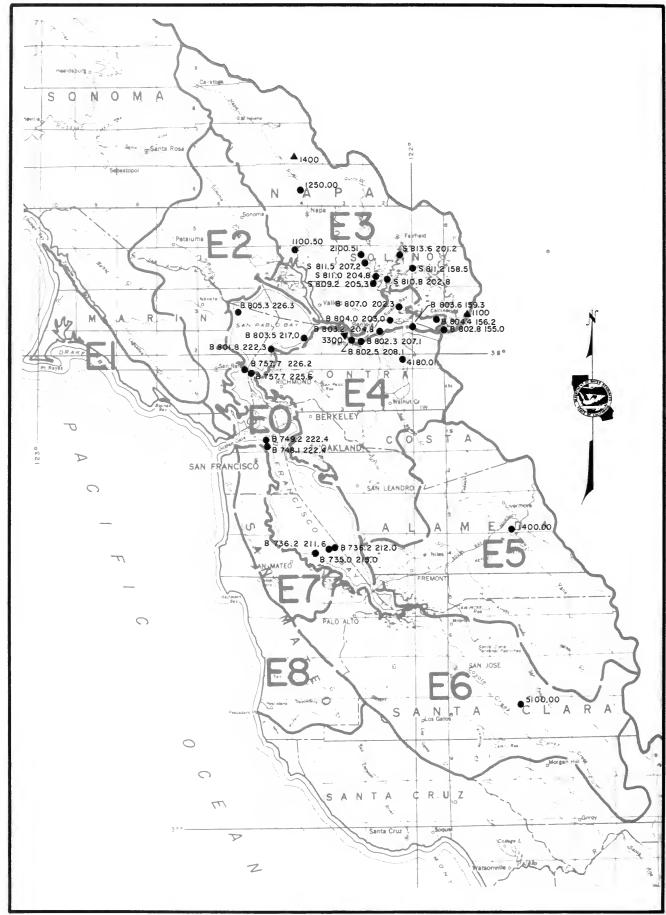
		Loc	ation				Data	on 1	pages	ind	licat	ed
Station	Station Number	Latitude	Longitude	Beginning of Record	Frequency of Sampling	D-2	D-3 1	)-4 1	Tab i		)-7 E	)-8 <b>D</b> -9
APTOS CREEK BELOW VALENCIA CREEK AT APTOS ARROYO SECO NEAR SOLEDAD ARROYO VALLE NEAR LIVERMORE BIG RIVER NEAR MENDOCINO BLANCO DRAIN AT PUMP LIFT	D0 2020.00 D2 1450.00 E5 1400.00 F8 2720.00 D2 1030.30	36 58 26 36 16 42 37 37 24 39 18 48 36 42 36	121 54 10 121 19 30 121 45 28 123 42 12 121 44 36	March 1970 April 1969 March 1950 Jan. 1959 May 1970	Semiannually Bimonthly Special Bimonthly Continuous	47	72	75	81		84	
BODFISH CREEK AT HIGHWAY 152 BRANGIFORTE CREEK AT SANTA CRUZ CARMEL RIVER AT HIGHWAY 1 CARMEL RIVER AT ROBLES DEL RIO CARNADERO CREEK AT BLOOMFIELD AVENUE CARNULNEZ STRAIT AT CROCKETT	D1 1330.00 D0 1100.00 D4 1010.50 D4 1200.00 D1 1320.00	37 00 48 36 59 10 36 32 12 36 28 30 36 57 54	121 37 54 122 00 47 121 54 42 121 43 36 121 32 00	April 1969 March 1970 April 1969 Jan. 1959 April 1969	Special Semiannually Special Semiannually Special	47 45 48 47	60 63 63	75	81			
CARNADERO CREEK AT BLOOMFIELD AVENUE  CARQUINEZ STRAIT AT CROCKETT CARQUINEZ STRAIT AT MARTINEZ CHADBOURNE SLOUCH AT CHADBOURNE ROAD CORDELIA SLOUCH AT CYGNUS CORDELIA SLOUCH AT UPPER END NEAR CORDELIA	EO B 803.5 213.3 EO B 801.9 207.8 EO S 811.0 204.8 EO S 809.2 205.3 EO S 811.5 207.2	38 03 28 38 01 55 38 10 57 38 09 10 38 11 27	122 13 18 122 07 46 122 04 50 122 05 19 122 07 09	1946 1926 Jan. 1967 Jan. 1967 Sept. 1967	Four-Day Four-Day Monthly Monthly Monthly	54	71 70 71	78				93 93
ELKHORN SLOUGH AT BRIDGE NEAR HALL GREEN VALLEY CREEK AT CORDELIA GRIZZLY BAY AT DOLPHIN NEAR SUISUN SLOUGH HILL SLOUGH AT GRIZZLY ISLAND ROAD HONKER BAY NEAR WHEELER POINT	D1 3220.20 E3 2100.51 E0 B 807.0 202.3 E0 S 813.6 201.2 E0 B 804.4 156.2	36 51 36 38 12 42 38 07 02 38 13 34 38 04 26	121 40 18 122 07 47 122 02 19 122 01 14 121 56 12	March 1970 Dec. 1968 Jan. 1968 Jan. 1967 Jan. 1968	Special Irregular Semimonthly Monthly Semimonthly	53	61 72 69 72 68	78	80 82			
LA BREA CREEK AT HIGHWAY 101 MONTEZUWA SLOUGH AT GRIZZLY ISLAND ROAD NAPA RIVER AT DUTTONS LANDING NAPA RIVER NEAR NAPA NAVARDA DIMED NA BANANDRO	D1 1395.50 E0 S 811.2 158.5 E3 1100.50 E3 1250.00	36 55 42 38 11 14 38 12 28 38 22 06 39 10 15	121 32 48 121 58 32 122 18 20 122 18 08 123 39 55	April 1969 Feb. 1967 Sept. 1965 Nov. 1929 Jan. 1959	Special Monthly Special Monthly Bimonthly		71	78 78				
NOYO RIVER NEAR FORT BRAGG PAJARO RIVER NEAR CHITTENDEN PAJARO RIVER AT THURWACHTER ROAD PESCADERO CREEK ABOVE HATTIELD CANYON PESCADERO CREEK AT S.P.R.R.	F8 3100.00 D1 1250.00 D1 1075.30 D1 1269.30 D1 1261.30	39 25 40 36 54 00 36 52 48 36 57 30 36 54 06	123 44 10 121 35 54 121 47 30 121 37 06 121 35 06	Jan. 1951 Dec. 1951 May 1970 Aug. 1971 Dec. 1970	Bimonthly Continuous Special Special Special				80 80		86	
PLANEL AGRICULTURAL DRAIN ABOVE LLAGAS CREEK RUSSIAN RIVER NEAR GUERNEVILLE RUSSIAN RIVER NEAR HOPLAND RUSSIAN RIVER NEAR UKIAH SAPPANGTVO DIVER AT CHIPDE ISLAND	D1 1475.50 F9 1100.00 F9 1765.00 F9 1850.00	36 58 36 38 30 00 39 01 35 39 12 07 38 02 47	121 30 36 122 56 05 123 07 45 123 11 56 121 55 02	May 1971 Nov. 1969 April 1951 Jan. 1968	Special Monthly Special Special Semimonthly	58 58		77	80		90	
SACRAMENTO RIVER AT COLLINSVILLE SACRAMENTO RIVER AT PITTSBURG SALINAS RECLAMATION CANAL AT AIRPORT WAY SALINAS RECLAMATION CANAL AT ALISAL S.T.P. SALINAS RECLAMATION CANAL BELOW ALISAL SLOUCH	B9 D 804.4 151.0 B9 D 802.3 153.0 D2 1020.70 D2 1016.50 D2 1009.20	38 04 27 38 02 18 36 39 42 36 40 06 36 44 30	121 50 58 121 52 58 121 37 18 121 38 06 121 44 18	July 1958 1945 May 1970 May 1969 Sept. 1970	Four-Day Four-Day Special Continuous Special		62 62		80 80		88	93 93
SALINAS RIVER AT PASO ROBLES SALINAS RIVER AT TWIN BRIDGES SALINAS RIVER NEAR BRADLEY SALINAS RIVER NEAR CONZALES SAN BENITO RIVER NEAR WILLOW CREEK SCHOOL	D3 1450.00 D2 1110.50 D2 1850.00 D2 1325.10 D1 2450.00	35 37 42 36 44 00 35 55 42 36 29 12 36 36 30	120 41 06 121 46 42 120 52 00 121 28 06 121 12 00	April 1951 May 1971 July 1958 May 1969 July 1958	Annually Special Semiannually Continuous Semiannually	47	62 63 62 61		81 81 81 80	83	89	
SAN FRANCISCO BAY AT SAN MATEO BRIDGE SAN FRANCISCO BAY AT SAN MATEO BRIDGE (PIER 662) SAN FRANCISCO BAY AT SAN MATEO BRIDGE (SHIP CHANNEL) SAN FRANCISCO BAY AT TREASURE ISLAND SAN FRANCISCO BAY WEST OF YERBA BUENA ISLAND	EO B 736.2 211.6 EO B 736.2 212.0 EO B 735.0 215.0 EO B 749.2 222.4 EO B 748.1 222.4	37 36 14 37 36 10 37 35 01 37 49 15 37 48 04	122 11 34 122 12 00 122 14 59 122 22 26 122 22 25	Oct. 1964 June 1971 Sept. 1969 July 1965 Sept. 1969	Monthly Monthly Monthly Monthly Monthly Monthly	48 48 48 49 48	63 63 64	75 75 75 76 76	81 81 81			91 91 91 91 91
SAN LORENZO RIVER AT BOULDER CREEK SAN LORENZO RIVER AT PARADISE PARK SAN PABLO BAY NEAR MOUTH OF PETALUMA RIVER SAN PABLO BAY NEAR PINOLE POINT SAN PABLO BAY NEAR PINOLE POINT	DO 1498.01 DO 1180.01 EO B 805.3 226.3 EO B 801.8 222.3 EO B 803.5 217.0	37 06 47 37 00 37 38 05 20 38 01 50 38 03 30	122 06 40 122 02 34 122 26 20 122 22 15 122 17 00	March 1970 Sept. 1969 March 1971 March 1971 March 1971	Semiannually Continuous Monthly Monthly Monthly	45 53 49	60 60 68 64 67	75 77 76			85	
SAN PABLO STRAIT WEST OF THE BROTHERS SARATOGA CREEK AT SARATOGA SCOTT CREEK AT HICHWAY I NEAR DAVENPORT SOQUEL CREEK AT SOQUEL SPRIG LAKE OUTFLOW AT HICHWAY 152	EO B 757.7 226.2 E6 5100.00 D0 4010.01 D0 3100.00 D1 1333.50	37 57 45 37 15 17 37 02 26 36 59 29 37 00 12	122 26 10 122 02 17 122 13 39 121 57 17 121 40 48	Sept. 1969 June 1971 March 1970 Dec. 1951 April 1969	Monthly Special Semiannually Semiannually Special	57 46	72 60 60		81			92
SUISUN BAY ABOVE AVON PIER SUISUN BAY AT BENICIA (MIDDLE OF PIER) SUISUN BAY AT NICHOLS SUISUN BAY AT PORT CHICAGO SUISUN BAY NEAR PRESTON POINT	EO B 803.2 204.8 EO B 802.5 208.1 EO B 803.0 159.0 EO B 803.4 202.3 EO B 804.0 203.0	38 03 13 38 02 29 38 03 02 38 03 24 38 03 58	122 04 48 122 08 05 121 58 59 122 02 20 122 03 00	Sept. 1969 March 1969 Jan. 1945 1946 Sept. 1968	Semiannually Irregular Four-Day Four-Day Monthly	50	67 66					93 93
SUISUN BAY OFF BULLS HEAD POINT AT MARTINEZ SUISUN BAY OFF MIDDLE POINT NEAR NICHOLS SUISUN SLOUGH AT VOLANTI SLOUGH ON JOICE ISLAND TEMBLADERO SLOUGH AT MERRITI LAKE DRAIN TEMBLADERO SLOUGH AT NASHUA ROAD	EO B 802.3 207.1 EO B 803.6 159.3 EO S 810.8 202.8 D2 1006.60 D2 1006.30	38 02 20 38 03 36 38 10 50 36 45 06 36 46 18	122 07 06 121 59 20 122 02 45 121 44 12 121 47 12	Feb. 1968 Jan. 1968 Sept. 1968 Aug. 1970 May 1970	Semimonthly Monthly Monthly Continuous Special	52	64 67 70 62 61			83	87	
UVAS CREEK NEAR MORGAN HILL BELOW UVAS DAM WALNUT CREEK AT HIGHWAY 4 AT CONCORD WATSONVILLE SLOUGH AT SAN ANDRES ROAD ZAYANTE CREEK AT FELTON	D1 1371.50 E4 4180.01 D1 1006.30 D0 1220.01	37 03 36 37 59 57 36 53 18 37 02 53	121 40 18 122 03 18 121 48 12 122 04 00	July 1952 June 1971 May 1971 March 1970	Semiannually Special Special Semiannually	57	61 72 60 60	75	80 80			

#### HYDROGRAPHIC AREA DESIGNATIONS IN THE CENTRAL COASTAL AREA

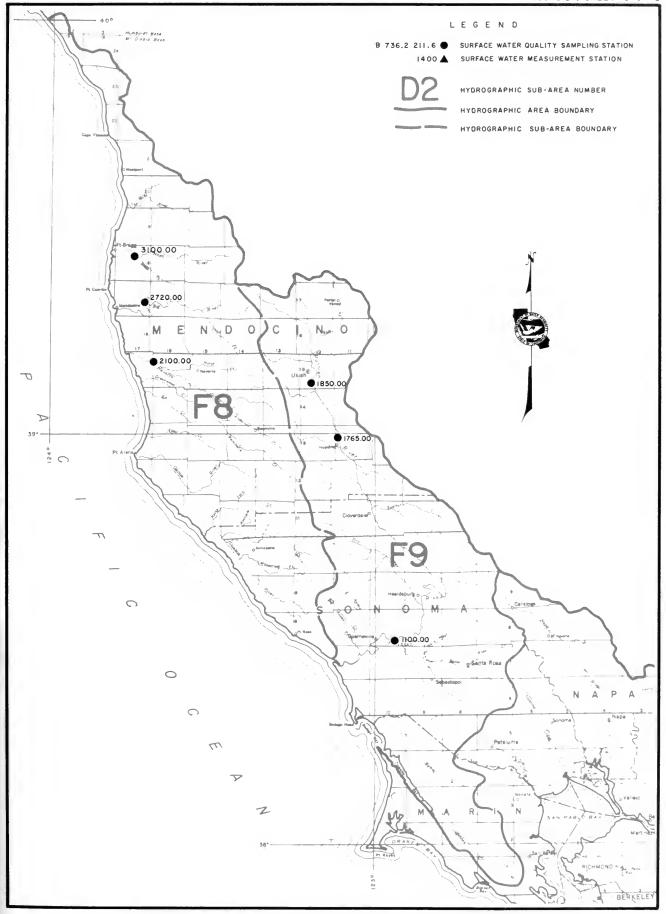
	Central Coastal Area		San Francisc	o Bay	Area	Nor	th Coastal Area
D1 D2 D3	Santa Cruz Pajaro-San Benito Rivers Lower Salinas River Upper Salinas River Monterey Coast	E1 E2 E3	San Francisco Bay Coast-Marin Marin-Sonoma Napa-Solano East Bay	E6 E7	Alameda Creek Santa Clara Valley Bayside-San Mateo Coast-San Mateo		Mendocino Coast Russian River



SURFACE WATER OBSERVATION STATIONS 1970-71



SURFACE WATER OBSERVATION STATIONS 1970-71



SURFACE WATER OBSERVATION STATIONS 1970-71

#### TABLE D-2

#### MINERAL ANALYSES OF SURFACE WATER

### Lab and Sampler Agency Codes

5000 - U. S. Geological Survey

5001 - U. S. Bureau of Reclamation

5006 - McClellan Air Force Base Laboratory

5050 - Department of Water Resources

5063 - Santa Cruz County Health Department

#### Abbreviations

TIME - Pacific Standard Time on a 24-hour clock

G.H. - Instantaneous gage height in feet above an established datum

Instantaneous discharge measured in cubic feet per second

DEPTH - Depth at which sample was collected

DO - Dissolved oxygen content in milligrams per liter

SAT - Percent of normal dissolved oxygen saturation

TEMP - Water temperature in degrees Fahrenheit (F) and Celsius (C)

PH - Measure of acidity or alkalinity of water

EC - Electrical conductance in micromhos at 25° C

TDS - Gravimetric determination of total dissolved solids at 180° C

SUM - Total dissolved solids by summation of analyzed constituents

TH - Total hardness

NCH - Noncarbonate hardness - any excess of total hardness over total

alkalinity

TURB - Jackson Turbidity Units measured with a Hellege Turbidmeter (E)

or a Hach Nephelometer (A)

SAR - Sodium adsorption ratio

PERCENT REACTANCE VALUE is determined by dividing the sum of the cations or anions in milliequivalents per liter into each constituent in milliequivalents per liter arriving at a percentage. For a partial analysis, an approximate value is determined by multiplying the electrical conductance by 0.01 and using that as the cation or anion sum.

#### Mineral Constituents

В	-	Boron	K	-	Potassium
CA	-	Calcium	MG	-	Magnesium
CL	-	Chloride	NA	-	Sodium
CO3	-	Carbonate	NO3	-	Nitrate
$\mathbf{F}$	-	Fluoride	SIO2	-	Silica
HCO3	-	Bicarbonate	S04	_	Sulfate

DATE TIME	SAMPLER LAB	G.H. DO Q SAT	TE		FIE LABOR	ATORY	HINE	RAL CO	NSTITU	ENTS	IN P		UIVALEN	NTS PI	ER LIT	ER	LIGRAMS			
		DEPTH			PH	EC .	CA	MG .	NA .	к.	C03	HC03	504	CL	NO3		5102	TOS SUM	TH NCH	TURA SAR
	00	1100.00	-	88	ANCIF	ORTE (		AT SAN					_			-		-		- '
03/15/71 1530	5063 5050	10.5 98	54 12		7.5 7.7	273 262	22 1.10 42	7.8 .64 24	17 •74 28		.00	71 1.16 44		17 •48 18			==	173	87 29	30E 0.8
05/18/71 1300	5063	10.0 102	62. 16.		7.8	422	••										==			
09/27/71 1230	5063 5050	9.5 92	57. 13.			485 469	2.20 47	15 1.24 26	30 1.31 28		.00	186 3.05 65		29 .82 17	.03		==	283	172 20	30E 1.0
	00	1180.01		SA	N LORI	ENZO F		T PARA		ARK		03		•	•					
10/06/70	5063		59	F	7.8	320														
0950 10/19/70	5063	104		C F	7.9	325														
1330		122	13	C F	7.8	321														
1115		96	14	С													==			
11/16/70 1045		12.5 109	9	F C	7.9	355														
11/30/70 1035		95		С	8.0	245			•-								==			
12/14/70 1120	5063	13.5 115	47 8		7.6	317											==			
12/22/70 1120	5063	12.0 106		F C	7.7	555														
01/11/71 1105	5063	11.5 99		F C	7.8	298		••									==			
01/25/71 1100	5063	13.5 116	48 9	F C	7.9	340											 			
02/08/71 1413	5063	13.5 118		F C	7.8	355										••	==			
02/23/71 1320	5063	12.0 106		F C	8.3	357											==			
03/10/71 1305	5063	13.0 113		F C	8.0	368											==			
03/15/71 1200	5063 5050	10.5 95	52 11			289 297	32 1.60 53	7.6 .63 21	16 •70 23		.00	100 1.64 55		14 •39 13	.6 .01		==	180	111 30	35E 0.7
04/01/71 1000	5063	10.5 90	48 9	F C	8.0	329											==			
04/12/71 1010	5063	12.0	53 12	F C	8.1	349											==			
04/27/71 1230	5063	11.5 111	57 14	F C	8.2	358		••									::			
05/10/71 0935	5063	11.5 110	56 13	F C	7.9	362							••				==			
05/18/71 1220	5063	11.5 120	64.0 17.8	F	8.1	355														
05/25/71 0945	5063		58 14	F C	7.9	355														
06/07/71 1130	5063		63 17		.8 . 1	372											::			
06/23/71 1130	5063	11.0	67		8.0	372														
07/12/71	5063		72 22	F	8.2	365														
07/26/71	5063	10.0	70	F	8.2	360														
1310	5063	10.0	74	F	8.2	357														
1420		116	23	С																

							М:	INERAL	ANALYS	SES OF	SURF	ACE W	ATER								
DATE	SAMPLER LAB	G.H. Q DEPTH	DO SAT	TE	-		LD ATORY EC	MINE				IN F	PERCENT	RAMS PE DUIVALE T REACT	ANCE	ER LITER VALUE	8	F 5102	TDS	LITER TH NCH	TURE
• • • • •	• • • •				•					• • •	• • •						• •	* * * *	* *		• •
	D <b>0</b>	1180	.01		SAI	N LOR	ENZO F	RIVER A	T PAR	ADISE F	PARK				CONTI	NUED					
08/26/71 1445	5063		9.5 109	73 23		8.3	350											:-			
09/13/71 1215	5063		11.0 120	68 20		8.1	360														
09/27/71 1010	5063 5050		10.5 98	54. 12.			350 354	38 1.90 53	9.7 .80 22	.83 23		.00	132 2.16 60		.68 19			::	218	135 27	31 0 •
	D0	1220	.01		ZA	YANTE	CREE	AT FE	LTON												
03/15/71 1110	5063 5050		12.0 107	51 11	F C	7.7 7.9	372 367	2.00 54	9.7 .80 22	.87 24		.00	119 1.95 53		4.0 .11 3	1.2 .02 1			223	140 43	550 0.
05/18/71 1050	5063		10.5 100	56. 13.		7.7	380														
09/27/71 0940	5063 5050		10.0 91				380 3770	43 2.15 6	7.9 .65	25 1.09 3		.00	126 2.07 5		26 .73 2	1.9			244	140 37	0.
	D0	1498.	.01		SAF	N LOR	ENZO F	IVER A	T BOUL	DER CR	REEK										
03/15/71	5063		10.5	47	F	7.6	315	32	1.2	17		.0	98		14	.4			184	85	801
1000	5050	3.5	89	8	С	7.8	306	1.60	•10 3	.74 24		.00	1.61 52		.39 13					5	0.
05/18/71 1000	5063		10.5 101	57. 13.		7.9	393														
09/27/71 0900	5063 5050		9.0 84	54. 12.			520 514	50 2.50 48	14 1.18 23	35 1.52 29		.00	184 3.02 58		46 1.30 25	.01			296	184 33	15
	00	2020.	00		API	ros c	REEK 8	ELOW V	ALENCI	A CREE	K AT	APTOS	i								
03/15/71 1350	5063 5050	3.24 5.3	10.5 96			8.1 8.3	555 550	49 2.45 45	23 1.91 35	39 1.70 31		.00	208 3.41 62		25 •71 13	.01			346	218 48	100
05/18/71 1400	5063		9•5 96	61. 16.		8.2	660														
09/27/71 1350	5063 5050		9.0 87	57. 13.		8.3 8.4	670 863	70 3.49 40	33 2.72 32	66 2.87 33		5.0 .17	306 5.02 58		74 2•09 24	.4			533	311 51	21.0
	D <b>0</b>	3100.	.00		500	UFL.	CREEK	AT 500				_			-						
03/15/71 1430		2.86	10.5 102		F		538	56 2.79	16 1.37	31		.00	174		26 •73	3.3 .00			334	208 66	121
05/18/71 1330	5063	2.62	10.5 120	72. 22.		8.2	675	50 	25 	24 			51 		13						
09/27/71 1300	5063 5050	2.48	10.0 107	66. 18.	0F 9C	8.4 8.5	710 705	70 3.49	25 2.06	44 1.91		6.0	224 3.67		58 1.64	.1			457	278 84	11
								47		25		3	49		22						
			01					T HIGH	_		AVENE	-									
03/15/71 0900	5050		11.0 95	9	C	7.5	212	.70 33	4.9 .40 19	.83 39		.00	58 •95 45		.65 31	.00			124	8	15
05/18/71 0830	5063		91	52. 11.		7.1	420														
09/27/71 0750	5063 5050		8.0 73	53. 11.	0F 7C	7.4 7.8	1150 611	18 •90 15	12 1.00 16	78 3.39 55		.00	114 1.87 31		101 2.85 47	.00			349	95 2	3.5
	01	1250.	00		PA.	JARO I	RIVER	AT CHI	TTENDE	N											
11/05/70 0815	5050 5050	2.34	8.0 79	59. 15.	0F 0C	8.0	1510 1650			171 7.44 45		.00	557 9.13 55		185 5.22 32	1	.00			554	
01/07/71 1045	5050 5050	3.12	12.0 98	44.	0F 7C	8.1 8.0	1000 1000			83 3.61 36		.00	303 4.97 50			••	.50	==		377	
03/04/71 1230	5050 5050	2.66	12.1 118	58 14	F C	7.6 7.7	1200 1230	84 4.19 30	67 5.51 40	95 4.13 30		.00	396	212 4.41 31		.48	•50	::	800 779	486 161	1.9
05/11/71 0810	5050 5050	2.72	7.9 79	60 16	F C	8.0	1100 1310	82	71 5.90 45	117		.00	419 6.87 52			26.0		::		500 156	2.3
07/08/71 1100	5050 50 <b>5</b> 0		9.6 107					74 3.69	64 5.26	132	2.8	29 .97 7	389	192	109	8.5	.60		844 803	440 80	2.
								25	36	39		,	44	27	<i>2</i> 1	1					

DATE	SAMPLER LAB	G.H. D DEPTH	SAT	TE	MP	FIE LABOR PH	LD ATORY EC					IN F	FKCFUI	REACT	NTS PE	R LIT	TER 8	F	105	TH	TUR
			• • •		•	• • •	• • •	CA	MG		K .	C03	HC03	504	CL CL	N03			5UM	NCH	54
	01	1261.	30		PE	SCADE	RO CRE	EK AT	5.P.R.	R.											
2/02/70 1510	5050 5050		12.0 106	50 10	F C	7.5 8.4	580 611	1.95		67 2.91 47	.07	.07	187 3.06 50	.94	2.00	.08	2.00		347 342	162 7	S
8/26/71	5050								145		40	256	1700	.0	3000	•2	118		6770	646	
1310			00						10		1	7	27.86 23	.00	84.60 70	•00			6914	1177	42
2/04/70													138		14	3.8	.20			138	
0935	5050											.00	138 2.26 70		12	.06	***			25	
			.00																		
2/04/70 1010	5050 5050		11.9 109	53 12	F C	7.4 7.8	300 354	29 1.45 41	15 1•29 36	.87 25		.00	130 2.13 60		.62 18	••0 •06 2	.20			137 31	
	01	1333.	50		SP	RIG L	AKE OL	TFLOW	AT HIG	HWAY 1	52										
2/04/70 1030	5050 5050		12.1 110	52 11	F C	7.3 7.9	210 271	22 1.10 41	14 1.16 43	12 •52 19		.00	103 1.69 62		13 •37 14	2.2 .04 1	•50	==		113 29	0
	01	1371.	50		UV	AS CR	EEK NE	MORGA	N HILL	. BL UV	AS DA	м									
3/04/71 1345	5050 5050		13.6 128	55 13	F C	7.8 8.0	250 318	34 1.70 49	16 1.32 38	9.8 .43 12	.02 1	.00	159 2.61 79	.50 15	7.0 .20 6	.00	•00	==	172 170	150 21	0
7/08/71 1300			10.3 109				230 314	32 1.60 47	17 1.40 41	8.8 .38 11	.02		160 2.62 79	24 .50 15			.10	==	182 168	148 19	0
	Dl	1395.	.50		LA	BREA	CREEK	AT HI													
2/03/70 1535			11.2	51 11	F C	7.3 7.9	620 584	37 1.85 32	28 2.35 40	42 1.83 31		.00	211 3.46 59		54 1.52 26	.19	.90	::		210 37	1
	01	2450.	00		5A	N BEN	ITO RI			W CREE	K SCH		•								
3/04/71 1500		2.97	11.9	58	F	8.4	1300	23	102 8.39	166	3.6	.0	441 7.23	295 6.14 37	3.13		1.30		915 919	476 116	3
7/07/71 1245			8.8 107					18	109	119	2.6	29 •97	446 7.31	238	74 2.09	.1	1.30	==	862 810	494 79	2
	nz	1325.	10		54	ITNAS	RIVER	NR GC	59 N7ALFS			6	48	32	14						
1/04/70 1145			10.2 100							38 1.65 28		.00	196 3.21 55		31 .87 15		•20	==		245	
1/06/71 1345	5050 5050		12.9 105			8.3 8.1	950 877			65 2.83		.0	251 4.11		58 1.64		.30			342	
3/04/71 1100			11.9 109					114 5.69		93	4.1	.0	47	301	85				821 781	445 224	1
5/11/71 1200	5050 5050		10.5 115	68 20	F C	8.4	600 682	60 2.99	25 26 2.16	31 54 2•35	1	10 •33	33 187 3.06	47	18 38 1.07	1.9				258 88	1
7/07/71			8.8	71	F	8.0	280	38 1.90	32 15	34 21	1.8	.0	45 152	58 1.21	16 15	.6	.10		231 224	158 32	0
1520	3030		• • •		·	0.5	400	46	30	55	ì	•••	60	29	10	•••				•	•
		1450.						R SOLE	DAD												
1/04/70 1045	5050 5050	3.31	7.4 72	58. 14.	0F 4C	7.7 8.3	520 659			38 1.65 25		.00	218 3.57 54		.56 8		.10			275	
1/06/71 1245	5050 5050		14.0 108			7.9 8.3	370 309			13 •57 18		.00	124 2.03 66		7.1 .20 6		•00			135	
3/04/71 1630	5050 5050	3.80	11.5 107				320 391	48 2.40 58	12 .99 24	16 .70 17	2.0 .05	.00	154 2.52 62	63 1.31 32	7.7 .22 5	.00	.00		244 224	170 44	0
5/11/71 1335	5050 5050	3.72	9.9 109			8.2	320 399	46 2.30 58	12 1.06 27	18 •78 20		6.0	152 2.49 62		6.6 .19 5	.00				168 34	0
7/07/71 1440	5050 5050	3.35	13.3 155			8.0	310 486	53 2.64	15 1.23	26 1.13	2.7	3.0 .10	168 2.75 55	88 1.83 37	10 .28	.00	.10		292 280	195 51	0
	0.2	1850.	00		54	LINAS	RIVER	52 NR BR	24 ADLEY	55	1	5	22	31	•						
3/04/71 1735			10.6 101	56 13	F	7.8	300	2.20	13	.61	3.1	.00	145		.28	1.2	.00		236 213	163 45	0
7/07/71	5050 5050	5.67	10.1			7.4 8.1	220 294	56 31 1.55	13		1.0	.0	131 2.15	36 .75	7.5 .21	.00	.10		184 164	129 24	0

							HI	NERAL	ANALYS	SES OF	SURF.	ACE W	ATER							
OATE TIME	SAMPLER LAB	G.H. Q DEPTH	DO SAT	TE			ELD RATORY EC					IN F	PERCENT	RAMS PER L	S PER L	ITER E 8	F		TH	TURB
• • • •	• • • •		• • •	• • •	• •	• •		CA	MG	NA .	• • <sup>K</sup> •	_C03	HC03	504 (	L NO		2105	5UM	NCH * * *	SAR
	03	1450.					S RIVER	AT PA												
03/04/71 1820	5050 5050	20	10.8			7.8 8.1		4.09 45	31 2.55 28	2.31	1.6		276 4.52 51	2.71 1.	59 . 66 .0 19	9 .00		495 493	331 106	1.3
	D4	1200.	00		CA	RMEL	RIVER	AT ROB	LES DE	EL RIO										
03/04/71 0945	5050 5050	3.38	9.9 92	54 12		7.5 7.7	400 592	56 2.79 46	18 1.48 24	41 1.78 29	2.7 .07 1			1.83 1.	47 . 33 .0 22			355 340	215 68	1.2
07/08/71 0700	5050 5050	3.04	6.9 66			7.2 7.9	350 583	56 2.79 47	17 1.40 24	39 1.70 29			176 2.88 49	1.79 1.	41 . 16 .0 20			353 328	212 66	1.2
	E0	B 735.	0 215.	.0	5A	N FR	ANCISCO	BAY A	T SAN	MATEO	BRID	3E 5H	IP CHAN	INEL						
03/16/71 1020	5050 5050			53 12		8.0	37000 32200					٠		135 380				24400		30E
04/13/71 0920	5050 5050		9.3 91	58 14	F C	8.1	36000 33700							131 369			3.2	24000		15E
06/23/71 0810	5050 5050			65 18		8.3	39000 36400							144 406.				29200		6E
07/08/71 0820	5050 5050		8.4 91	67 19		8.2	40000 38100							148 417	300			29900		4E
08/10/71 1030	5050 5050		6.9 77	70 21		8.0	39500							159 448.	900 .38		==	30400		8E
09/21/71 0915	5050 5050		6.3 70			8.1	41900							153 431	46			30600		9E
	FO	8 736.	2 211.	6	SA	N FR	ANCISCO	RAY A	T SAN	MATED	ARID	ì.F		•	118					
10/21/70		5 1300		61	F	7.9	42000 43700							174 490	68			32300		6E
11/17/70 0950	5050 5050		7.0 69	59 15	F C	8.2	41000 41800	••						169 476	58		==	30800		10E
12/16/70 0815	5050 5050		8.7 79	52 11		7.7	32000 33000							123 346	86			22800		25E
01/28/71 0750	5050 5050		9.0 81			8.0	30500 29100							116 327.	.12			21100		45E
02/17/7 <b>1</b> 1330	5050 5050		9.2 86	54 12		8.0	33000 29200							121 341				21800		20E
05/11/71 0810	5050 5050		8.4 81			7.9	40000 31800							128 360	96		==	25400		40E
		0.734	2 212							WATER	22101		· =		113					
06/23/71		8 736.					39000	BAT A	I SAN		 8×100	JE (P)	IER 662	148	300			30000		8E
0845	5050		9.7	18	С		37400 40000							417.	36			30700		3E
0915	5050		103	18		0.2	38000							428.				30700		30
08/10/71 1115	5050 5050		8.0 89	70 21		8.1	40100							162 456.				31000		9E
09/21/71 1050	5050 5050		7.4 83	70 21			41400							136 383.				32100		4E
	ΕO	R 748.	1 222.	4	SAI	N FR	NCISCO	BAY W	EST OF	YERBA	8UEN	IA ISL	ANO							
10/21/70 1030	5050 5050		7.4 73	59 15			41000 41000							160 451 -			::	30000		4E
11/17/70 1100	5050 5050		7.6 74	58 14		8.2	41000 40200							158 445.	300		==	29100		8E
12/16/70 1030	5050 5050		8.7 80	53 12	F C	7.9	31000 32500							120 338	000		==	22100		12E
01/28/71 0730	5050 5050		8.3 73	50 10		7.4	33000 30200							120 338.	000		:-	22100		20E
02/17/71 1350	5050 5050			52 11		7.9	34000 30500							122 344.	200		==	22900		7E
03/16/71 1005	5050 5050		9.3 84			8.0	42000 37700							160 451.	00		==	27100		7E
														<u>1</u>	38					

DATE		G.H. Q DEPTH	DO SAT	TE	- 1		ELD RATORY EC	MINE	RAL CO	NSTITU	ENTS	IN H	ILLIEG	AMS PER LITE ULVALENTS PE REACTANCE V	RLIT	ER	LIGRA	MS PER	LITER TH TUE	Q H
		_						CA	MG .	NA	K	C03	HC03	504 CL	N03				NCH 54	
							ANCISCO							CONTIN						•
		748.1					36000	W	.31 UF	TENDA	000	13L	AND	12900				23800		7E
04/13/71 0910	5050		85	13		0.1	33900						-	363.78 123				23600	'	,,
05/11/71 0812	5050 5050		8.2 82	60. 15.	5F 8C	8.0	35000 36800							14100 397.62 124				27600	15	5€
		749.2					ANC 15CO	BAY A	T TREA	SURE I	SLANE	)								
06/23/71 0700	5050 5050		6.4 63	59 15	F C	8.2	40500 39200							15800 445.56 114			==	32100	•	9E
07/08/71 0640	5050 5050		7.3 74	61 16	F C	7.7	43000 39800							15400 434.28 109				31900	;	7E
08/10/71 0900	5050 5050		5.9 62	64 18		7.9	41500							16400 462.48 111			==	31700	•	6E
09/21/71 0715	5050 5050		7.0 72	63 17	F C	7.9	40100							15500 437.10 109			==	29800	:	3E
	E0 8	9 757.7	226.	2	SAF	N PAE	BLO STR	AIT WES	ST OF	THE BR	DTHEA	es.								
10/21/70 1120	5050 5050		8.2 82	60 16	F C	7.9	35000 35500							13500 380.70 123			==	25100	:	3 <b>E</b>
11/17/70 1145	5050 5050		7.8 77		F C	8.2	38000 35300							13600 383.52 125			=	24600	•	6 <b>E</b>
12/16/70 1220	5050 5050		9.7 87	51 11	F C	7.5	13000 13700							4460 125.77 106				8000	20	30
01/29/71 1000	5050 5050		.8.6 76	50 10	F C	7.5	28000 25600						••	9780 275.80 124			==	18100	25	5E
02/17/71 1450	5050 5050		9.7 88	52 11	F C	7.8	21000 18500							6350 179.07 111				12400	15	5E
03/16/71 1050	5050 5050		9.5 87	53 12	F C	7.8	15000 22600							8800 248.16 126				14900	10	0E
04/13/71 1010	5050 5050		9.0 86		F C	7.8	21500 20100							6740 190.07 109				13100	2!	5E
05/11/71 1000	5050 5050		8.8 87	59. 15.		7.8	20800 25200							9000 253.80 116				17500	31	30E
	E0 /	801.8	222.	3	SAI	N PAI	BLO BAY	NEAR	PINOLE	POINT										
03/24/71 1130	5001 5006	3	9.0 83	54 12	F C	7.7	38100							13500 380.70 100	1.3				14	4 A
04/21/71 1055	5001 5006	3	10.2 96	55 13	F C	7.8	27300					.00	105 1.72 1	9500 267.90 98	1.3		8.0		1:	34
05/19/71 1130	5001 5006	3	9.3 94		F C	7.9	25500					.00	61 1.00	8600 242.52 95	1.3		8.7			8 A
06/16/71 0930	5001 5006	3	8.5 87	63 17	F C	7.5	27800					.00	108 1.77 1	9500 267.90 96	.9 .01		8.4		•	6 A

DATE TIME	SAMPLER LAB	G.H. Q DEPTH	OO SAT	TI	EMP	FII LABO PH	ELO RATORY EC					IN P	ERCENT	AMS PER UIVALENT REACTAN	S PE	R LIT	ER 8	F	TOS T	H TUR
					• •	• •		.CA		NA .	* *	c03	HC03	504	CL +	NO3		5102	SUM NC	H SAF
	E0	3 801.					BLO BAY	NEAR P	INOLE	POINT					NTI					
07/15/71 0950	5001 5006	3	8.6 90	64 18		7.8	32500					.00	113 1.85 1	11 310	000 •20 95	.02		6.6		41
08/17/71 1430	5001 5006	3	8.2 88	66 19		8.1	36200					.00	118 1.93 1		200 .44 111	1.3		4.2		10
9/15/71 1310	5001 5006	3	7.8 87	70 21	F C	7.8	34700					.00	74 1.21	12 344	200 •04 99	.9 .01		4.8		6.
	E0	B 802.	3 207.	. 1	<b>5</b> U	ISUN	BAY OFF	BULLS	HEAD	POINT	AT M	ARTIN	ΕŻ							
0/07/70 1045	5001 5006	3	9 <b>.2</b> 95			7.7	15100									.01		2.0		28
1/20/70 1035	5001 5006	3	8.4 83	59 15	F C	7.6	16500									.7 .01		11.0		22
1/12/71 0850	5001 5006			48 9			7050													
2/09/71 1330	5001 5006			52 11			10300													
3/04/71 0825	5001 5006	3	10.8 95	50 10		6.7	14800					.00	96 1.57			.9 .01		14.0		28
3/24/71 1300	5001 5006	3	9.6 91	55 13		7.5	18200					.00	98 1.61					8.1		50
4/06/71 1130	5001 5006		10.0	59 15		7.7	7350					.00	79 1.29			.9 .01		13.0		30
4/21/71 1205	5001 5006		10.3 100		F C	7.6	7470											13.0		39
5/04/71 1105	5001 5006	3	9.2 89	57 14	F C	7.5	14400					.00	79 1.29			.8		13.0		32
5/11/71 11 <b>5</b> 5	5001 5006	3		63 17			1270													
5/19/71 1245	5001 5006		9.7 102	64 18		7.6	8360									,		12.0		21
6/02/71 1105	5001 5006	3	9.3 96	63 17	F C	7.8	7240					.00	79 1.29			.4		11.0		19
5/16/71 1100	5001 5006		9.9 106	66 19	F C	7.5	6870											12.0		20
5/30/71 0925	5001 5006	3	9.0 98				10200					.00	78 1.28			.9		10.0		18
7/15/71 1115	5001 5006	3	9.0 98	68 20	F C	7.8	14700						1 					7.4		11
3/03/71 1345	5001 5006		9.3 104	70 21			17800					.00	80 1.31			.7		3.6		16
3/10/71 1230	5001 5006	3		73 23			10700						1 					==		
8/17/71 1535	5001 5006	=	8.5 95				18400											1.8		17
8/31/71 1245	5001 5006	3	9.4 105	70 21	F C	7.9	11900					.00	69			.7		10.0		20
9/15/71 1415	5001 5006	3	7.5 87	73 23	F C	7.5	15500						1 					6.9		18
9/28/71 1050	5001 5006	3	8.6 90	64 18	F C	7.7	11300					.00	90 1.48			.7		9.5		22
	FO	3 B 802.5	5 200	1	511	T 511141	BAY AT	RENTOT	4 /HID	DIE OF	pre	D)	1							
6/03/71 1015		., avz.	, EVO.		F	7.8	500													

0.07/70 500 1200 500 1/20/70 500 1/20/70 500 1/20/70 500 1/20/70 500 1/20/70 500 1/20/70 500 1/20/70 500 1/20/71 500 1/20/71 500 1/20/71 500 1/20/71 500 1/20/71 500 1/20/71 500 1/20/71 500 1/20/71 500 1/20/71 500 1/20/71 500 1/20/71 500 1/20/71 500 1/20/71 500 1/20/71 500 1/20/71 500 1/20/71 500 1/20/71 500 1/20/71 500 1/20/71 500
1200 501 1/20/70 501 1/307 501 1/307 501 3/04/71 501 1/345 501 3/24/71 501 1/345 501 4/06/71 501 1/245 501 4/21/71 501 1/255 501 5/04/71 501 1/305 501 6/02/71 501 1/305 501 6/02/71 501 1/305 501 6/02/71 501 1/305 501 6/30/71 500 6/30/71 500 6/30/71 500 1/15/71 500
1200 501 1/20/70 501 1/307 501 1/307 501 3/04/71 501 1/345 501 3/24/71 501 1/345 501 4/06/71 501 1/245 501 4/21/71 501 1/255 501 5/04/71 501 1/305 501 6/02/71 501 1/305 501 6/02/71 501 1/305 501 6/02/71 501 1/305 501 6/30/71 500 6/30/71 500 6/30/71 500 1/15/71 500
1130 500 3/04/71 500 1000 500 3/24/71 500 1345 500 4/06/71 500 1245 500 4/21/71 500 1255 500 6/10/71 500 1305 500 6/10/71 500 1305 500 6/10/71 500 1305 500 6/10/71 500 1305 500 6/30/71 500 1105 500
1000 500 3/24/71 500 1345 500 4/06/71 500 1245 500 4/21/71 500 1255 500 4/21/71 500 1335 500 6/19/71 500 1335 500 6/16/71 500 1150 500 6/30/71 500 6/30/71 500 6/30/71 500 6/30/71 500 6/30/71 500 6/30/71 500 6/30/71 500
1345 500  4/06/71 500 1245 500  4/21/71 500 1255 500  5/04/71 500 1335 500  6/02/71 500 1235 500  6/16/71 500 1150 500  6/30/71 500 1105 500
1245 500  4/21/71 500 1255 500  5/04/71 500 1305 500  5/19/71 500 1335 500  6/02/71 500 1235 500  6/16/71 500 1150 500  6/30/71 500 1105 500
1255 500  5/04/71 500  1305 500  5/19/71 500  1335 500  6/02/71 500  1235 500  6/16/71 500  6/30/71 500  1105 500  7/15/71 500
1305 500  5/19/71 500  1335 500  6/02/71 500  1235 500  6/16/71 500  6/30/71 500  1105 500  7/15/71 500
1335 500 6/02/71 500 1235 500 6/16/71 500 6/16/71 500 6/30/71 500 1105 500 7/15/71 500
1235 500 6/16/71 500 1150 500 6/30/71 500 1105 500
1150 500 5/30/71 500 1105 500 7/15/71 500
1105 500 7/15/71 500
3/03/71 500 1520 500
3/17/71 500 1620 500
3/31/71 500 1430 500
9/15/71 500 1500 500
7/28/71 500 1230 500
/09/70 500 1235 500
7/04/71 500 0845 500
3/24/71 500 1200 500
/21/71 500 1120 500
/19/71 500 1200 500
6/16/71 500 1005 500
7/15/71 500 1025 500
3/17/71 500 1500 500
7/15/71 500 1340 500

DATE							MIN	ERAL A	NALTSE	5 OF 5	SURF	ACE WA	TER								
IIME	SAMPLER LAB	G.H. Q DEPTH	00 SAT	TE	MP		ELD RATORY EC					IN M	ILL1EQUERCENT	REACTA	TS PE	ER LITER /ALUE	6		TDS	TH	TURB
	• • • •			• •	•	• •	• • • •	CA .	MG .	NA .	* *	C03	HC03	504	CL	ND3	• •	5102	SUM	NCH	SAR
	ΕO	8 803.	6 159.	3	SU	15UN	BAY OFF	MIDDLE	E POIN	T NEAF	NI(	CHOLS									
10/09/70 1310	5001 5006	3	10.0 105	64 18		7.7	5350														60A
03/04/71 0915	5001 5006	3	11.7 103		F C	7.0	2180											16.0			50A
15/04/71 1215	5001 5006	3	11.0 109	59 15	F C	7.4	320											15.0			55A
06/02/71 1150	5001 5006	3	9.9 104	64 18	F	7.8	204											12.0			17A
06/30/71 1020	5001 5006	3	9.4 105	70 21		7.6	1650											12.0			33A
8/03/71 1435	5001 5006	3	9.4 105	70 21		8.0	3710	••										8.9			32A
8/31/71 1340	5001 5006	3	9.7 110	72 22	F C	8.1	1600											11.0			32A
9/28/71 1145	5001 5006	3	8.9 95	66 19		7.6	888											11.0			37A
	FO	B 804.	0 203.	0	รม	T SUN	BAY NEA	R PRESI	TON PO	INT											
0/09/70		•	9.3	64	F	7.8															39A
1245	5006	3	98	18	С		15500														654
0900	5006	3	97	10	C F	7.5	9000											14.0			50A
1150	5006	3	104	15	C F	8.1	2900											14.0			27A
1130	5006	3	111	18	С		1180											12.0			
6/30/71 0955	5001 5006	3	9.6 105	86 86		7.6	3270					<del></del>						7.5			40A
8/03/71 1415	5001 5006	3	9.1 101	70 21			11800											4.2			40A
8/31/71 1310	5001 5006	3	9.4 105	70 21	F C	7.9	6760											9.2			34A
9/28/71 1115	5001 5006	3	8.9 93	64 18	F C	7.5	3330											12.0			37A
	€0	8 804.	4 156.	2	нон	NKER	BAY NEA	R WHEEL	ER PO	INT											
0/09/70 1330	5001 5006	3	9.3 98	64 18	F C	7.7	1960														60A
3/04/71 0935	5001 5006	3	11.7 103	50 10	F C	6.8	609					.00	78 1.28 21			1.3		19.0			45A
3/23/71 1135	5001 5006	3	10.7 101	55 13		7.1	426					.00	69 1.13 27					12.0			55A
4/06/71 1215	5001 5006	3	10.5 104	59 15	F C	7.5	140						63 1.03 74			.00		16.0			70A
4/20/71 1030	5001 5006	3	10.3 100	57 14		7.3	153											17.0			50A
5/04/71 1240	5001 5006	3	11.3	59 15	F C	7.5	174					.00	64 1.05 60			.1		15.0			37A
5/18/71 1020	5001 5006	3	10.4	63 17	F C	7.7	165											15.0			22A
6/02/71 1210	5001 5006	3	10.4	64 18	F C	7.8	175					.00	70 1.15 66			.01		13.0			244
6/15/71	5001 5006	3	9.8 107	68 20		7.5	218											14.0			30A
0940																					

TIME		G.H. O DEPTH	DO SAT	T E	MP		ELD RATORY EC	CA	MG	NA	к	IN M	ILLIEO( ERCENT HCO3	AMS PER JIVALENT REACTAN 504	S PE ICE V CL	R LITE ALUE NO3	R 8	F S102	TOS TH TUI
	F0	8 804.	4 156.	. 2	но	NKFR	BAY NE	AR WHEE							NTIN				
7/14/71 0835		3	9.1		F	7.7	1210											8.0	4
8/03/71 1455	5001 5006	3	9.3 106	72 22	F C	7.9	3160					.00	64 1.05 3			.00		11.0	5
8/16/71 1245	5001 5006	3	8.7 99	72 22	F C	7.7	1830											12.0	6
8/31/71 1400	5001 5006	3	9.4 105	70 21	F C	8.0	655					.00	67 1.10 17			.00		13.0	3
9/14/71 1310	5001 5006	3	7.9 93	75 24		7.6	433											13.0	3
9/28/71 1200	5001 5006	3	8.8 92	64 18		7.7	198					.00	92 1.51 76			.00		13.0	3
	ΕO	8 805.	3 226.	3	SA	N PAE	LO BAY	NEAR M	0 HTU0	F PET	ALUMA	RIVE	R						
3/24/71 1100	5001 5006	3	9.6 91				28000								700 1.54 98	1.8		==	2
4/21/71 1015	5001 5006	3	10.1 93	54 12			24600					.00	101 1.66	8 239	500 •70 97	.9 .01		8.8	4
5/19/71 1050	5001 5006	3	9.4 97				23100					.00	141 2.31 1	7 217	700 -14 94	•4 •01		8.7	1
6/16/71 0840	5001 5006	3	9.6 103	66 19			24000					.00	106 1.74 1	8 234	300 •06 98	.01		9.6	
7/15/71 0915	5001 5006	3	8.1 87	66 19			26700					.00	106 1.74 1	8 242	600 •52 91	.01		9.7	1
8/17/71 1335	5001 5006	3	8.6 94	68 20	F C	8.1	30300					.00	111 1.82 1		700 .74 100	2.2		6.8	7
9/15/71 1240	5001 5006	3	7.6 91	77 25	F C		26800					.00	141 2.31 1	9 259	200 0.44 97	.01		7.1	1
		8 807.					BAY A	T DOLPH	IN NEA	R 5UIS	SUN S	LOUGH							
0/07/70 1000	5001 5006	3	9.6 97	61 16	F C	7.6	5470									.00		7.0	14
1/20/70 1000	5001 5006	3	9.2 89	57 14	F C	7.4	3090									.01		14.0	7
0755	5001 5006	3	11.3 97			6.8	2740					.00	82 1.34 5			1.3		17.0	7
3/23/71 1030	5001 5006	3	10.5 99	55 13		7.3	2420					.00	75 1.23 5					13.0	7
4/06/71 1030	5001 5006	3	10.2	59 15		7.5	145					.00	62 1.02 70			.00		16.0	8
4/20/71 0955	5001 5006	3	10.1 98	57 14		7.3	188											17.0	10
5/04/71 1015	5001 5006	3	10.5 101	57 14		7.3	758					.00	63 1.03 14			.00		15.0	7
5/18/71 0920	5001 5006	3	10.5 108	63 17	F C	7.3	286											15.0	4
6/02/71 1020	5001 5006	3	10.0 103	63 17		7.9	372					.00	63 1.03 28			.00		13.0	4
6/15/71 0900	5001 5006	3	9.7 104	66 19	F C	7.5	580											14.0	5
6/30/71 0835	5006	3	9.5 104	20	С		1550	••				.00	1.05 7			.00			6
7/14/71 0745	5006	3		22	С		3140											9.2	3
8/03/71 1300	5001 5006	3	9.4 105			7.8	7560					.00	64 1.05 1			.00		6.6	6

#### TABLE D-2 (CONTINUED)

#### MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. Q DEPTH	DO SAT	TE		РН	ATORY EC	CA	MG	DNSTITU		IN F	ERCENT	REAC	TANCE Y	R LITE	ER B	F	TDS SUM	TH	TUR SA
• • • •	• • • • •			,	-			• • • •						• •			• • •	• • •	• • •		• • •
		9 807	.0 202.				BAY	AT DOL	PHIN N	EAR SUI	SUN	SLOUGH			CONTIN	IUED					45
08/16/71 1200	5001 5006	3	104	22		7.8	4640											6.9			•
08/31/71 1200	5001 5006	3	9.7 108	70 21	F C	8.0	2510					.00	81 1.33 5			.00		5.4			41
09/14/71 1200	5001 5006	3	8.1 94	73 23	F C	7.7	2270											12.0			41
09/28/71 0950	5001 5006	3	9.4 99	64 18	F C	7.5	338					.00	72 1.18 35			.01		14.0			3
	ΕO	5 809	.2 205.	. 3	ÇO	RDELI	A SLOU	JGH AT	CYGNU	s											
0/07/ <b>7</b> 0 0840	5001 5006	3	8.3 85			7.4	5480														110
11/06/70 0920	5001 5006	3	7.5 72	57 14	F C	7.1	5100	50 2.50 5	110 9.05 18	840 36.54 75	.92 .92	.00	102 1.67	240 5.00 11	1440 40.61 86	.9	.30	11.0	3080 2778	578 494	96 15
12/09/70 1040	5001 5006	3	9.3 84	52 11	F C	7.1	1410														12
1/06/71	5001 5006	3	11.1 91	45 7	F C	7.2	704														8
02/05/71 1000	5001 5006	3	9.2 79	48	F C	7.1	762														12
03/05/71 0915	5001 5006	3	10.0 88	50 10	F C	7.2	990														7
14/05/71 1020	5001 5006	3	8.0 84	64 18	F C	7.2	1310														14
15/17/71 1115	5001 5006	2	8.8 92	64 18	F C	7.4	1450	27 1.35 10	34 2.80 20	215 9.35 68	13 .33 2	.00	100 1.64 12	105 2.19 16	360 10.15 73	.8 .01	.20	12.0	868 816	208 126	10
06/18/71 1015	5001 5006	3	7.3 81	70 21	F C	7.1	1060														13
7/30/71 1005	5001 5006	3	8.2 91	70 21		7.6	4540									,					45
0900	5001 5006	3	7.3 81	70 21		7.7	4240	2.00 5	85 6.99 18	680 29.58 75	31 •79 2	.00	84 1.38 4		1180 33.28 88	.01	•50	7.3	2580 2225	450 381	5 14
19/27/71 1000	5001 5006	3	9.0 93	63 17		7.2	1540														5
	ΕO	s 810.	8 202.	8	<b>5</b> U	ISUN	SLOUGH	AT VO	LANTI	SLOUGH	DN .	OICE	ISLAND								
0/07/7 <b>0</b> 1040	5001 5006	3	8.0 82	63 17	F C	7.5	5350											::			79
1/06/7 <b>0</b> 1215	5001 5006	3	7.3 72	59 15		7.3	3670	45 2.25 6	90 7.40 21	570 24.80 71	.69 2	.00	141 2.31 7	180 3.75 11	986 27.81 82	2.2	.30	11.0	2200 1981	483 367	79 11
2/09/70 1305	5001 5006	3	7.8 72		F C	7.0	2270														100
1/06/71 1245	5001 5006	3	9.6 79	45 7	F C	7.1	1770														90
2/05/71 1255	5001 5006	3	8.7 79	52 11		7.0	1610											::			100
3/05/71 1115	5001 5006	2	9.3 82	50 10	F C	7.2	1900											::			120
4/05/71 1305	5001 5006	3	7.6 81		F C	7.2	2120														120
15/17/71 1405	5001 5006	3	8.7 93	66 19		7.9	1860	36 1.80 10	3.78 21	275 11.96 67	15 •38 2	.00	127 2.08 12	140 2.91 16	450 12.69 72		.60	11.0	1860 1040	279 175	75
6/18/71 1240	5001 5006	3	9.1 105	73 23		7.4	961														95
7/30/71 1230	5001 5006	3	9.3 106			7.5	3650														45

DATE TIME	SAMPLER LAB	G.H. DEPTH	SAT	T 6	MP	FIE LABOR PH	EC	CA	MG	ONSTITU	ENTS	IN	PERCENT HC03	REAC SO4	TANCE V	ALUE NO3	TER B	F \$102	TDS SUM	TH NCH	TURE
	• • • • •	5 810.	a a a	. 8	Su	* * *	SLOUGH		OLANTI	SLOUGH	0N	JOICE	TSLAND		CONTIN		• • •	• • •	• • •	• • • •	• • •
08/27/71 1240		2	7.8 90		F	7.9	4390	40	90	720 31.32	.69 .2	.00	102	180	1220 34.40 86	.4	.20	4.2	2570 2332	470 387	50 14.
)9/27/71 1250	5001 5006	3	8.1 85	64 18		7.6	2180										**	==			60
	E0	S 811.	0 204	8	СН	ADBOU	IRNE SL	OUGH /	AT CHA	DBOURNE	ROA	O NEA	R SUISU	N							
10/07/70 0950	5001 5006	3	8.4			7.6	5210														50
11/06/70 1040	5001 5006	3	7.0 69	59 15	F C	7.2	4180	48 2.40 6	100 8.22 21	640 27.84 71	32 .82 2	.00	129 2•11 5	200 4.16 11	1150 32.43 84	1.3	.00	13.0	2500 2248	532 426	70 12.
12/09/70 1215	5001 5006	3	8.6 80	54 12	F C	7.0	2220											==			100
01/06/71 1110	5001 5006	3	10.7 88	45 7	F C	7.0	1720														90
02/05/71 1120	5001 5006	3	9.0 80	50 10	F C	7.0	1310														100
03/05/71 1015	5001 5006	3	9.6 87	52 11	F C	7.2	1850											==			130
04/05/71 1155	5001 5006	3	7.7 79	63 17	F C	7.3	1940											==			110
05/17/71 1250	5001 5006	3	7.9 85	66 19	F C	7.7	1400	37 1.85 14	42 3.45 25	8.05	11 •28 2		165 2.70 20	110 2.29 17	300 8.46 63	2.7	•20	14.0	710 783	265 130	80
06/18/71 1135	5001 5006	3	8.7 99	72 22	F C	7.3	896														100
07/30/71 1120	5001 5006	3	8.2 91	70 21	F C	7.6	1640											==			90
08/27/71 1115	5001 5006	3	6.6 74	70 21	F C	7.7	4040	22 1.10 3	90 7.40 20	660 28.71 76	28 •72 2		113 1.85 5	180 3.75 10	1100 31.02 85	.9 .01	•20	7.3	2380 2144	425 333	40 13.
09/27/71 1115	5001 5006	3	8.4 85	61 16	F C	7.3	922														35
	€0	s 811.	2 158.	,5	MO	NTEZU	MA SLO	UGH A1	GRIZ	ZLY ISL	AND	ROAD									
10/07/70 1110	5001 5006	3	8.6 89	63 17		7.5	5930											==			50
11/06/70 1300	5001 5006	3	7.0 69			7.1	5920	60 2.99 5		1000 43.50 75	45 1•15 2	.00	103 1.69 3		1740 49.07 87	.9 .01	•50	9.0	3600 3316	685 600	65 16•
12/09/70 1345	5001 5006	3	9.0 81	52 11	F C	7.0	1820														95
1/06/71 1320	5001 5006	3	10.7 88	45 7	F C	7.0	1570														85
2/05/71 1340	5001 5006	3	10.1 89	50 10	F C	6.9	1120										**				100
1220	5001 5006	3	9.7 86	50 10	F C	7.0	1900											==			130
04/05/71 1345	5001 5006	3	8.4 88	64 18	F C	6.9	1130										••				90
05/17/71 1450	5001 5006	3	10.1 108	66 19	F C	7.8	683	18 •90 14	17 1.40 21		6.5 .17 3	.00	73 1.20 18	50 1.04 16	154 4.34 66	.01		13.0	409 391	115 <b>55</b>	65 3.
06/18/71 1320	5001 5006	3	8.9 103	73 23	F C	7.3	746														70
1310	5001 5006	3	8.6 98	72 22	F C	7.4	2210											==			60
1330	5001 5006	3	7.9 91	73 23	F C	7.9	3610	36 1.80 5	75 6•17 18	25.23	.28 1	.00	80 1.31 4	150 3.12 10	990 27•92 86	.01		6.5	2100 1888	399 333	40 12•
1320	5001 5006	3	8.6 92	66 19		7.3	2310														50

							MI	NERAL	ANALYS	ES OF	SURF	CE WA	TER								
DATE TIME	SAMPLER LA8	G.H. DEPTH	DO SAT	ΤE	MP	F1E LABOR PH	LD RATORY EC					IN P	ERCENT	REACT	NTS PE	R LITE		LIGRAM! F 5102	TD5 SUM	тн	TURB
			* * *	* *	•		* * *	CA .	MG					* * *	***	NU3	* *	* * * *		NCH * * * *	.5AR
10/07/70 0910		5 811.	5 207. 8.7 86	59 15	F C	7.8	A 5L0U	IGH AT	UPPER	END NE	AR CO	PRDEL I	A 					::			31A
04/05/71 1120	5001 5006	3	6.5 70	66 19	F C	7.2	1300														80A
05/17/71 1205	5001 5006	3	6.9 74	66 19	F C	7.7	1190	32 1.60 14	32 2.63 24	155 6.74 60	8.2 .21	.00	200 3.28 29	70 1.46 13	235 6•63 58	1.5	.30	27.0	891 659	212 48	75A 4.6
06/18/71 1100	5001 5006	2	6.9 78	72 22	F C	7.2	751											::			90A
07/30/71 1040	5001 5006	3	6.6 72	68 20	F C	8.2	923											==			120A
08/27/71 1015	5001 5006	2	6.9 75	68 20	F C	8.0	606	20 1.00 16	29 2.38 39	61 2.65 43	4.8 •12 2	.00	176 2.88 47	35 .73 12	88 2.48 41	.7	•00	16.0	390 341	170 25	80A 2.0
09/27/71 1045	5001 5006	3	9.7 96	59 15	F C	7.6	323														15A
	€0	5 813.	6 201.	.2	нІ	LL SL	OUGH A	T GRIZ	ZLY IS	LAND R	DAD										
10/07/70 1130	5001 5006	3	9.2 91	59 15	F C	7.9	657														55A
11/06/70 1330	5001 5006	3	8.5 84	59 15	F C	7.6	530	21 1.05 19	28 2.30 42	2.00 37	3.5 .09 2	.00	172 2.82 54	35 .73 14	60 1.69 32	.01	•20	16.0	314 295	168 27	45A 1.5
12/09/70 1420	5006	3	5.5 51	54 12	С	7.0	1410														130A
01/06/71 1345	5001 5006	3	8.4 69	45 7	F C	7.3	2530		•-												55A
02/05/71 1400	5001 5006	3	6•1 54	50 10	F C	7.3	2890											==			75A
03/05/71 1245	5001 5006	3	9.0 81	52 11	F C	7.6	3010														65A
04/05/71 1415	5001 5006	3	6.6 71	66 19	F C	7.3	2930														100A
06/18/71 1345	5001 5006	3	7.8 90	73 23	F C	7.6	2000														85A
07/30/71 1335	5001 5006	3	8.4 94	21		7.8	2320														80A
08/27/71 1400	5006	3	90	21	С	8.0	3430	2.30 7	6.58 20	550 23.93 72	.64 2	.00	168 2.75 9	170 3.54 11		1.8	•40	3.4	2030 1879	444 307	45A 11.4
09/27/71 1345		3	96	17	C	7.6	411										-				304
		1100.					VER AT	DUTTO	NS LAN	DING											
04/13/71 1130	5050		10.9 109			8.2	4500														
10/22/70		1250.	13.9				VER NE	AR NAP	A 23	21		7.0	170		21					161	3E
1445	5050	2.8	144	17	C F	7.3	386		1.92	.91 24			2.79		•59 15					10	0.7 90E
1330	5050	809	11.5	8	С	7.6	305	.60 40 22	.56 37 16	.33 22 15		.00	1.10 73		•17 11					122	0.4 6E
1030	5050 5050	166	103	60	C F	7.4	296 270	1.10 37 21	1.34 45 14	.65 22 13		.00	2.31 78		.31 10 9.5					112	0.6 4E
1030		3.68	10.8	68.	0F		320	1.05 38	1.19	.57 21 18		•0	2.18		.27 10					130	0.5 2E
1100		36	9.4	76	F		300	1.10 33	1.50 45	.78 24 22		.00	2.56 77		.39 12					143	0.7 1E
1145 07/22/71		3.06	112	79	F	8.3	370	1.20 33 30	1.66 45 20	.96 26 21		•0	2.84 78					32.0		160	0.8 1E
1300	5050		148	26	С	7.9	387	1.50 39		•91 24		•00	2.93 76		•56 14					14	0.7

# TABLE D-2 (CONTINUED) MINERAL ANALYSES OF SURFACE WATER

DATE		0 0EPTH				РН	ATORY EC	CA	RAL CO	NA	к	IN F	PERCENT HC03	UIVALE REACT 504	NTS PE ANCE V CL	R LIT	TER 8	5102	TDS	TH NCH	TURE
	• • • •			• • •				• • •	• • •	• • •	• •	• • •		• • •	• • •	• •	• • •	••••	• •		• •
		1250.						AR NAP							CONTIN						
1140	5050 5050	3.15	11.4			8.2	380 418	27 1.35 32	24 2.01 48	17 •74 18		4.0 •13 3	213 3.49 83		.45 11					168	0.
	€3	2100.	51		GR	EEN V	ALLEY	CREEK	AT COR	DELIA											
1/06/70 1005	5001 5006	2	9.8 95			7.7	296	16 .80 27	18 1.48 50	14 •61 21	2.3 2.3		133 2.18 72	21 •44 15		1.3	•00	16.0	187 168	114	0.
2/09/70 1115	5001 5006	3	11.6 107	54 12	F C	7.2	230														23
1/06/71 1040	5001 5006	3	12.7 104		F C	7.2	263														14
2/05/71 1030	5001 5006	3	10.6 91		F C	7.2	419														9
3/05/71 0950	5001 5006	2	11.5 97	46 8		7.4	360														5
	E4	4180.	01		WA	LNUT (	CREEK	AT HIG	HWAY 4	AT CO	NCORE	)									
0900 0900	5050	20	8.2 85			8.0	950														
	£5	1400.	00		AR	ROYO V	VALLE	NEAR L	IVERMO	RE											
06/09/71 1000	5050	2.70	8.8 95	67 19	F C	7.9	86														
	E6	5100.	00		SA	RATOG	A CREE	K AT S	ARATOG	4											
6/09/71 1120	5050	2.75	.9.4 99	65 18		8.0	470														
	F8	2100.	00		NA	VARRO	RIVER	NEAR	NAVARR	•											
1/11/70 1700	5050 5050		10.3 100			7.6 8.1	272	27 1.35 47	11 •90 31	13 •57 20	1.6 .04 1	.00	132 2•16 78	.33 12	9.6 .27 10	.01	.30		156 144	112 5	0.
1/07/71 1000	5050 5050	3.90 507	12.5 98	41. 5.	0F 0C	7.0 8.1	179			7.8 .34 19		•00	87 1.43 80		7.9 .22 12		.10			78	15
2/03/71 1645	5050 5050	3.28 288	11.4 98			7.3 8.1	202	21 1.05 50	7.7 .63 30	9.0 .39 19	.9 .02 1	.00	102 1.67 80	10 .21 10	7.2 .20 10	.5 .01	•00	==	108 106	84	0.
3/03/71 1630	5050 5050	2.72 130	11.5 102	50 10	F C	7.4 7.6	225			8.1 .35 16		.00	115 1.88 84		7.1 .20 9		.10			105	3
5/05/71 1600	5050 5050	2.79 145	9.7 99				225			8.9 .39 17		.00	114 1.87 83		5.7 •16 7		.10			93	Z
7/21/71 1500	5050 5050	16	10.7 126	24	С	8.0	251			.57 23			129 2.11 84		8.6 •24 10		.10			108	2
9/15/71 1450	5050		10.0 112	70. 21.			266			.65 24		.00	144 2.36 89		21 •59 22		•20			113	1
		2720.		_			H NEA	R MENO			, .	_				_			-		
1/11/70	5050	220	10.6	13.	3С	8.1	199	19 •95 46	7.2 .59 29	.48 23	1.4 .04 2		97 1.59 80	8.9 .19 10	7.6 •21 11	.01 1	.40		98 104	3	0.
1/07/71 0830	5050		12.3				137	14		6.5 .28 20	1.0	.00	1.10 80	7.1	6.3 •18 13		•20		e o	54	15
2/03/71 1530	5050		12.3				150	.80 53	4.4 .36 24	7.6 .33 22	.03		74 1.21 78	7.1 .15 10	6.9 .19 12	.00	.00		88 79	58 3	0.
3/03/71 1515	5050	70	101	8	С	7.5	167			7.0 .30 18		.00	1.34 80		5.9 .17 10		.10			69	
5/05/71 1415	5050	60	10.1	14	С	7.5	167			8.3 .36 22		.00	85 1.39 83		4.8		.10			66	1
7/21/71 1430	5050	20	1113	22	С	7.5	202	<b></b>		.52 26		.00	106 1.74 86		7.6 .21 10		.20			82	
9/15/71 1345	5050 5050	6.90 10	9.0 98				208			.52 .25		.00	108 1.77 85		8.6 .24 12		•40			80	1

## TABLE D-2 (CONTINUED) HINERAL ANALYSES OF SURFACE WATER

TIME	SAMPLER LAB	G.H. O DEPTH	OO SAT	TE		FIE LABOR Ph	ATORY		RAL CON			IN M	ERCENT	UIVALE REACT	NTS PE	ER LIT	ER 8	LIGRAMS F	TDS	TH	TURB
					•			CA.	MG	. NA .		C03	HC03	504	CL ,	N03		5102	SUM • •	NCH	5AR
	F8	3100.	00		NO.	YO RI	VER NE	AR FOR	T BRAGG												
11/11/70 1430	5050 5050	70	7.4 70	56. 13.		7.0 8.0	167	15 •75 46	5.0 .41 25	10 •44 27	.03	.00	75 1.23 75	7.2 .15	8.8 .25 15	.00	•20	==	83 84	58 4	4E 0.6
1/06/71 1545	5050 5050	273	10.6 83			7.1 7.6	109			5.8 .25 23		.00	52 .85 78		7.2 .20 18		.10			38	6E
2/03/71 1445	5050 5050	131	12.3 103	46 8		7.3 7.8	116	12 •60 51	3.2 .26 22	6.7 .29 25	.6 20.	.00	55 •90 78	4.3 .09 8	6.2 .17 15	.00	.00	==	71 60	43 2	4E 0.4
3/03/71 1430	5050 5050	88	9.9 84	47 8		7.8 7.5	130			6.3 .27 21		.00	60 •98 75		6.0 .17 13		.00	==		50	25E
1330	5050 5050	4.15 90	10.5 99			7.2 7.6	131			7.0 .30 23		.00	60 •98 75		5.2 .15 11		.00	::		48	4E
7/21/71 1315	5050 5050	12	9.9 108	68 20	F C	7.2 7.5	160			10 •44 28		.00	78 1.28 80		8.4 .24 15		.10	Ξ		60	18
9/15/71 1240	5050 5050	6.2	9.3 98	64 18		7.1 7.6	165			11 •48 29		.00	82 1.34 81		10 •28 17		•20	==		63	2E
	F9	1100.	00		RUS	SSIAN	RIVER	NEAR	GUERNEV	ILLE											
0/23/70 0815	5050 5050	4.96 269	7.0 71	61 16		7.3 8.0	310 307	26 1.30 42	14 1.16 38	16 •70 23		.00	138 2.26 74		16 •45 15			==		123 10	25E 0.6
1/19/70 0930	5050	5.14	7.7 70	52 11	F C	7.7	340											==			
2/18/70 0840	5050 5050	7.05 11600	10.3 89	48 9		7.2 6.9	150 144	12 •60 42	6.6 •54 37	5.8 .25 17		.00	67 1.10 76		5.8 •16 11			==		57 2	280E 0.3
2/18/71 1530	5050 5050		11.1 101			7.6 8.1	310 315	31 1.55 49	17 1.41 45	12 •52 17		.00	163 2.67 85		9.9 •28 9			==		148 15	10 0.4
3/25/71 1430	5050 5050	8.80 2540	13.5 127			7.6 7.6	205 220	23 1.15 52	8.6 .71 32	8.2 .36 16		.00	109 1.79 81		6.3 .18 8					93 4	80E 0.4
0720	5050	7.48	9.3 92	59 15	F.	7.5	260														
0800	5050 5050	5.79 656	8.6 91	65. 18.			265 268	23 1.15 43	14 1•21 45	10 •44 16		.00	144 2.36 88		6.6 •19 7	,				118	3E 0.4
0800	5050 5050	4.72	7.2 82	72 22		7.5 7.7	225 270	25 1 • 25 46	15 1.31 49	8.3 .36 13		.00	143 2.34 87		6.0 .17 6					128	30E 0.3
7/22/71 1100	5050		8.0 94	75 24		7.8	250														
8/25/71 0930	5050 5050	4.82	7.8 92				240 252	27 1.35 54	.93 37	8.2 .36 14			131 2.15 85		6.6 •19 8					114	2E 0.3
9/28/71 1400	5050 5050	4.92	9.8 104	65 18	F C	7.9 8.3	278 277	1.15 42	13 1.09 39	.48 17		.00	144 2.36 85		.28 10			==		112	4E 0.5
	F9	1765.	00		RUS	SIAN	RIVER	NEAR	HOPL AND												
15/20/71 1630	5000	334																			
	F9	1850.	00		RUS	SIAN	RIVER	NEAR	UKIAH												
5/20/71 1300	5000	2.50 21																			

#### TABLE D-3

#### MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

#### Constituents

MBAS - Methylene blue active substance, a measure of detergent surfactants

BOD - Biological oxygen demand

#### Abbreviations

Mg/L - Milligrams per liter

Ug/L - Micrograms per liter

Ft. - Feet

#### Lab and Sampler Agency Codes

5000 - U. S. Geological Survey

5001 - U. S. Bureau of Reclamation

5006 - McClellan Air Force Base Laboratory

5050 - Department of Water Resources

5063 - Santa Cruz County Health Department

Station Number	Station	Date Time	c	onstituents	Samp	Lob
DO 1100.00	BRANCIFORTE CREEK AT SANTA CRUZ	03-15-71 1530	MBAS Suspended Solids	0.0 Mg/L 24 Mg/L	5063	5050
		05-18-71 1300	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.1 Mg/L 0.00 Mg/L 0.00 Mg/L 0.2 Ug/L 0.00 Mg/L	5063	5050
		09-27-71 1230	MBAS Suspended Solids	0.0 Mg/L 40 Mg/L	5063	5050
DO 1180.01	SAN LORENZO RIVER AT PARADISE PARK	03-15-71 1200	MBAS Suspended Solids	0.0 Mg/L 38 Mg/L		5050
		05-18-71 1220	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.1 Mg/L 0.00 Mg/L 0.00 Mg/L 0.1 Ug/L 0.00 Mg/L	5063	5050
		09-27-71 1010	MBAS Suspended Solids	0.0 Mg/L 2 Mg/L	5063	5050
DO 1220.01	ZAYANTE CREEK AT FELTON	03-15-71 1110	MBAS Suspended Solids	0.0 Mg/L 393 Mg/L	5063	5050
		05-18-71 1050	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.1 Mg/L 0.00 Mg/L 0.00 Mg/L 0.0 Ug/L 0.00 Mg/L		5050
		09-27-71 0940	MBAS Suspended Solids	0.0 Mg/L 0.0 Mg/L	5063	5050
DO 1498.01	SAN LORENZO RIVER AT BOULDER CREEK	03-15-71 1000	MBAS Suspended Solids	0.0 Mg/L 72 Mg/L		5050
		05-18-71 1000	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.2 Mg/L 0.00 Mg/L 0.00 Mg/L 0.0 Ug/L 0.01 Mg/L		5050
		09-27-71 0900	MBAS Suspended Solids	0.0 Mg/L 13 Mg/L	5063	5050
DO 2020.00	APTOS CREEK BELOW VALENCIA CREEK NEAR APTOS	03-15-71 1350	MBAS Suspended Solids	0.0 Mg/L 84 Mg/L	5063	5050
		05-18-71 1400	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.1 Mg/L 0.00 Mg/L 0.00 Mg/L 0.1 Ug/L 0.00 Mg/L	5063	5050
		09-27-71 1350	MBAS Suspended Solids	0.0 Mg/L 0.0 Mg/L	5063	5050
DO 3100.00	SOQUEL CREEK AT SOQUEL	03-15-71 1430	MBAS Suspended Solids	0.0 Mg/L 18 Mg/L	5063	5050
		05-18-71 1330	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.1 Mg/L 0.00 Mg/L 0.00 Mg/L 0.0 Ug/L 0.00 Mg/L		5050
		09-27-71 1300	MBAS Suspended Solids	0.0 Mg/L 0.0 Mg/L	5063	5050
DO 4010.01	SCOTT CREEK AT HIGHWAY 1 NEAR DAVENPORT	03-15-71 0900	MBAS Suspended Solids	0.0 Mg/L 20 Mg/L	5063	5050
		05-18-71 0830	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.1 Mg/L 0.00 Mg/L 0.00 Mg/L 0.0 Ug/L 0.00 Mg/L		5050
		09-27-71 0750	MBAS Suspended Solids	0.0 Mg/L 8 Mg/L	5063	5050
D1 1006.30	WATSONVILLE SLOUGH AT SAN ANDRES ROAD	05-05-71 1000	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.2 Mg/L 0.00 Mg/L 0.00 Mg/L 0.00 Ug/L 0.01 Mg/L	5050	5050

Station Number	Station	Date Time	Constituents		Samp	Lab
D1 1006.30	WATSONVILLE SLOUGH AT SAN ANDRES ROAD (Continued)	07-08-71 1205	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.2 Mg/L 0.00 Mg/L 0.00 Mg/L 0.0 Ug/L 0.00 Mg/L	5050	5050
D1 1075.30	PAJARO RIVER AT THURWACHTER ROAD	05-05-71 1030	Arsenic Barium Cadmium Lead Merćury, Total Selenium	0.00 Mg/L 0.0 Mg/L 0.00 Mg/L 0.00 Mg/L 0.2 Ug/L 0.01 Mg/L	5050	5050
		07-08-71 1150	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.1 Mg/L 0.00 Mg/L 0.00 Mg/L 0.00 Ug/L 0.01 Mg/L	5050	5050
D1 1250.00	PAJARO RIVER NEAR CHITTENDEN	05-05-71 1130	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.0 Mg/L 0.00 Mg/L 0.00 Mg/L 0.5 Ug/L 0.01 Mg/L	5050	5050
		07-08-71 1100	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.1 Mg/L 0.00 Mg/L 0.01 Mg/L 0.01 Ug/L 0.00 Mg/L	5050	5050
01 1371.50	UVAS CREEK NEAR MORGAN HILL BELOW UVAS DAM	05-05-71 1000	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.0 Mg/L 0.00 Mg/L 0.00 Mg/L 0.1 Ug/L 0.00 Mg/L	5050	5050
D1 1475.50	PLANEL AGRICULTURAL DRAIN ABOVE LLAGAS CREEK	05-05-71 1245	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.0 Mg/L 0.00 Mg/L 0.00 Mg/L 0.1 Ug/L 0.01 Mg/L	5050	5050
		07-08-71 1030	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.2 Mg/L 0.00 Mg/L 0.00 Mg/L 0.0 Ug/L 0.01 Mg/L	5050	5050
D1 2450.00	SAN BENITO RIVER NEAR WILLOW CREEK SCHOOL	05-05-71 0900	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.0 Mg/L 0.00 Mg/L 0.00 Mg/L 0.0 Ug/L 0.00 Mg/L	5050	5050
D1 3220.20	ELKHORN SLOUGH AT BRIDGE NEAR HALL	05-05-71 0915	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.2 Mg/L 0.00 Mg/L 0.00 Mg/L 0.3 Ug/L 0.00 Mg/L	5050	5050
		07-08-71 0945	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.1 Mg/L 0.00 Mg/L 0.00 Mg/L 0.0 Ug/L 0.00 Mg/L	5050	5050
D2 1006.30	TEMBLADERO SLOUGH AT NASHUA ROAD	05-05-71 1450	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.01 Mg/L 0.0 Mg/L 0.00 Mg/L 0.00 Mg/L 0.2 Ug/L 0.01 Mg/L	5050	5050
		07-07-71 1500	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.2 Mg/L 0.00 Mg/L 0.00 Mg/L 0.0 Ug/L 0.00 Mg/L	5050	5050

Station Number	Station	Dote Time	Constituent	s	Samp	Lob
D2 1006.60	TEMBLADERO SLOUGH AT MERRITT LAKE DRAIN	05-05-71 1300	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.0 Mg/L 0.00 Mg/L 0.00 Mg/L 0.2 Ug/L 0.00 Mg/L	5050	5050
D2 1009.20	SALINAS RECLAMATION CANAL BELOW ALISAL SLOUGH	05-05-71 1230	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.0 Mg/L 0.00 Mg/L 0.00 Mg/L 0.0 Ug/L 0.01 Mg/L	5050	5050
		07-07-71 1445	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.1 Mg/L 0.00 Mg/L 0.00 Mg/L 0.00 Ug/L 0.00 Mg/L	5050	5050
D2 1020.70	SALINAS RECLAMATION CANAL AT AIRPORT WAY	05-05-71 1030	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.02 Mg/L 0.0 Mg/L 0.00 Mg/L 0.00 Mg/L 0.0 Ug/L 0.00 Mg/L	5050	5050
		07-07-71 1335	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.1 Mg/L 0.00 Mg/L 0.00 Mg/L 0.0 Ug/L 0.00 Mg/L	5050	5050
D2 1030.30	BLANCO DRAIN AT PUMP LIFT	05-05-71 1200	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.01 Mg/L 0.0 Mg/L 0.00 Mg/L 0.00 Mg/L 0.0 Ug/L 0.01 Mg/L	5050	5050
		07-07-71 1430	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.1 Mg/L 0.00 Mg/L 0.00 Mg/L 0.0 Ug/L 0.00 Mg/L	5050	5050
D2 1110.50	SALINAS RIVER AT TWIN BRIDGES	05-05-71 0800	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.0 Mg/L 0.00 Mg/L 0.00 Mg/L 0.2 Ug/L 0.01 Mg/L	5050	5050
		07-07-71 0855	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.0 Mg/L 0.00 Mg/L 0.00 Mg/L 0.1 Ug/L 0.02 Mg/L	5050	5050
D2 1325.10	SALINAS RIVER NEAR GONZALES	05-05-71 1230	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.0 Mg/L 0.00 Mg/L 0.00 Mg/L 0.0 Ug/L 0.00 Mg/L	5050	5050
		07-07-71 1520	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.2 Mg/L 0.00 Mg/L 0.00 Mg/L 0.0 Ug/L 0.01 Mg/L	5050	5050
D2 1450.00	ARROYO SECO NEAR SOLEDAD	05-05-71 1140	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.0 Mg/L 0.00 Mg/L 0.00 Mg/L 0.0 Ug/L 0.00 Mg/L	5050	5050
		07-07-71 1440	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.0 Mg/L 0.00 Mg/L 0.00 Mg/L 0.00 Ug/L 0.00 Mg/L	5050	5050

Station Number	Station	Date Time	Constituents			Samp	Lab
D2 1850.00	SALINAS RIVER NEAR BRADLEY	05-05-71 1000	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 0.0 0.00 0.00 0.3 0.00	Mg/L Ug/L	5050	5050
		07-07-71 1035	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 0.0 0.00 0.00 0.00 0.01	Mg/L Mg/L Mg/L Mg/L Ug/L	5050	5050
D4 1010.50	CARMEL RIVER AT HIGHWAY 1	05-05-71 1430	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 0.00 0.00 0.00 0.00	Mg/L Ug/L	5050	5050
D4 1200.00	CARMEL RIVER AT ROBLES DEL RIO	07-07-71 0700	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 0.1 0.00 0.00 0.00 0.0	Mg/L Ug/L	5050	5050
ЕО В 735.0 215.0	SAN FRANCISCO BAY AT SAN MATEO BRIDGE (SHIP CHANNEL)	03-16-71 1020	Suspended Solids	48	Mg/L	5050	5050
	(0.121 0.13.1.12)	04-13-71	Suspended Solids	26	Mg/L	5050	5050
		06-23-71 0810	Suspended Solids	11	Mg/L	5050	505
		07-08-71	Suspended Solids	9	Mg/L	5050	505
		0820 08-10-71	Suspended Solids	18	Mg/L	5050	505
		1030 09-21-71 0915	Suspended Solids	43	Mg/L	5050	505
EO B 736.2 211.6	SAN FRANCISCO BAY AT SAN MATEO BRIDGE	10-21-70 1000	Suspended Solids	2	Mg/L	5050	505
		11-17-70 0950	Suspended Solids	12	Mg/L	5050	505
		12-16-70 0815	Suspended Solids	29	Mg/L	5050	505
		01-28-71 0750	Suspended Solids	60	Mg/L	5050	505
		02-17-71 1330	Suspended Solids	14	Mg/L	5050	505
		05-11-71 0810	Suspended Solids Arsenic Barium Cadmium Lead Mercury, Total Selenium		Mg/L Mg/L Mg/L Mg/L Mg/L Ug/L Mg/L	5050	505
EO B 736.2 212.0	SAN FRANCISCO BAY AT SAN MATEO BRIDGE (PIER 662)	06-23-71 0845	Suspended Solids	15	Mg/L	5050	505
		07-08-71 0915	Suspended Solids	8	Mg/L	5050	505
		08-10-71 1115	Suspended Solids	15	Mg/L	5050	505
		09-21-71 1050	Suspended Solids	13	Mg/L	5050	505
EO B 748.1 222.4	SAN FRANCISCO BAY WEST OF YERBA BUENA ISLAND	10-21-70 1030	Suspended Solids	0	Mg/L	5050	505
		11-17-70 1100	Suspended Solids	12	Mg/L	5050	505
		12-16-70 1030	Suspended Solids	11	Mg/L	5050	505
		01-28-71	Suspended Solids	17	Mg/L	5050	505
		0730 02-17-71	Suspended Solids	6	Mg/L	5050	505
		1350 03-16-71	Suspended Solids	32	Mg/L	5050	505
		1005 04-13-71	Suspended Solids	23	Mg/L	5050	505

Station Number	Station	Date Time	Constituents		Somp	Lob
EO B 748.1 222.4	SAN FRANCISCO BAY WEST OF YERBA BUENA ISLAND (Continued)	05-11-71 0812	Suspended Solids Arsenic Barium Cadmium Lead Mercury, Total Selenium	20 Mg/ 0.00 Mg/ 0.2 Mg/ 0.00 Mg/ 0.00 Mg/ 0.4 Ug/ 0.00 Mg/	L L L L	5050
EO B 749.2 222.4	SAN FRANCISCO BAY AT TREASURE ISLAND	06-23-71 0700	Suspended Solids	1 <b>6</b> Mg/	L 5050	5050
		07-08-71 0640	Suspended Solids	14 Mg/	L 5050	5050
		08-10-71 0900	Suspended Solids	19 Mg/	L 5050	5050
		09-21-71 0715	Suspended Solids	13 Mg/	L 5050	5050
ЕО В 757.7 226.2	SAN PABLO STRAIT WEST OF THE BROTHERS	10-21-70 1120	Suspended Solids	2 Mg/	L 5050	5050
		11-17-70 1145	Suspended Solids	7 Mg/	L 5050	5050
		12-16-70 1220	Suspended Solids	16 Mg/	L 5050	5050
		01-28-71 1000	Suspended Solids	21 Mg/	L 5050	5050
		02-17-71 1450	Suspended Solids	10 Mg,	L 5050	50 50
		03-16-71 1050	Suspended Solids	30 Mg,	L 5050	5050
		04-13-71 1010	Suspended Solids	39 Mg,		5050
		05-11-71 1000	Suspended Solids Arsenic Baríum Cadmium Lead Mercury, Total Selenium	33 Mg, 0.00 Mg, 0.0 Mg, 0.00 Mg, 0.00 Mg, 0.0 Ug, 0.00 Mg,	'L 'L 'L 'L	5050
EO B 801.8 222.3	SAN PABLO BAY NEAR PINOLE POINT	03-24-71 1130	Secchi Disk BOD (5 days) BOD (7 days)	3.0 Ft 0.5 Mg 0.7 Mg	'L	5001
		04-21-71 1055	Secchi Disk BOD (7 days)	1.8 Ft 1.9 Mg		5001
		05-19-71 1130	Secchi Disk BOD (7 days) Suspended Solids Volatile Suspended Solids	1.8 Ft 0.7 Mg 24 Mg 2 Mg	/L /L 5001	5001 5006
		0 <b>6-</b> 16-71 0930	Secchi Disk Suspended Solids Volatile Suspended Solids	2.8 Ft 14 Mg 0 Mg	/L 5001	5001 5006
		07-15-71 0950	Secchi Disk BOD (7 days) Suspended Solids Volatile Suspended Solids Cadmium, Total Chromium Copper, Total Iron Lead, Total Manganese Zinc, Total	2.9 Ft 1.5 Mg 23 Mg 3 Mg 0.01 Mg <0.01 Mg <0.01 Mg <0.01 Mg <0.01 Mg <0.01 Mg <0.04 Mg <0.04 Mg	/L 5001 /L 5001 /L /L /L /L /L	5001 500 <b>6</b>
		08-17-71 1430	Secchi Disk BOD (7 days) Suspended Solids Volatile Suspended Solids	2.0 Ft 1.3 Mg 19 Mg 0 Mg	/L /L 5001	5001 5006
		09-15-71 1310	Secchi Disk BOD (7 days) Suspended Solids Volatile Suspended Solids Cadmium, Total Chromium Copper, Total Iron Lead, Total Manganese Zinc, Total	3.5 Ft 1.4 Mg 10 Mg 6 Mg 0.01 Mg <0.01 Mg <0.01 Mg <0.01 Mg <0.01 Mg 0.2 Mg <0.01 Mg <0.01 Mg <0.01 Mg <0.01 Mg <0.01 Mg <0.01 Mg <0.01 Mg	. 5001 /L /L 5001 /L /L /L /L /L /L /L /L /L	5001 5006
ЕО В 802.3 207.1	SUISUN BAY OFF BULLS HEAD POINT AT MARTINEZ	10-07-70 1045	Secchi Disk BOD (5 days) Suspended Solids	0.6 Ft 1.9 Mg 82 Mg	/L	

Station Number	Station	Date Time	Constituents			Samp	Lab
ЕО В 802.3 207.1	SUISUN BAY OFF BULLS HEAD POINT AT MARTINEZ (Continued)	11-20-70 1035	Secchi Disk BOD (5 days) Suspended Solids Cadmium Chromium Copper Iron Lead Manganese, Total Zinc	1.3 0.7 17 0.01 <0.01 <0.05 <0.1 <0.01	Ft. Mg/L Mg/L Mg/L	500 I	5001 5006
		03-04-71 0825	Secchi Disk BOD (7 days)	1.0	Ft. Mg/L	5001	5001
			Suspended Solids	33	Mg/L Ft.	5001 5001	5006 5001
		03-24-71 1300	Secchi Disk				
		04-06-71 1130	Secchi Disk BOD (5 days) BOD (7 days)	1.3 0.5 0.8	Ft. Mg/L Mg/L	5001	5001
		04-21-71 1205	Secchi Disk	0.8	Ft.	5001	5001
		05-04-71 1105	Secchi Disk BOD (7 days) Suspended Solids Cadmium, Total Chromium Copper, Total Iron Lead, Total Manganese Zinc, Total	0.8 1.3 38 0.01 <0.01 <0.05 <0.1 <0.01 <0.05 <0.01	Mg/L Mg/L Mg/L Mg/L Mg/L	5001	5001
		05-19-71 1245	Secchi Disk	1.0	Ft.	5001	5001
		06-02-71 1105	Secchi Disk BOD (7 days) Suspended Solids Volatile Suspended Solids Cadmium, Total Chromium Copper, Total Iron Lead, Total Manganese Zinc, Total	1.1 1.1 42 10 <0.01 <0.01 0.07 <0.1 <0.01 <0.05 0.03	Mg/L Mg/L Mg/L Mg/L	5001	5001 5006
		06-16-71 1100	Secchi Disk	1.2	Ft.	5001	5001
		06-30-71 0925	Secchi Disk BOD (7 days) Suspended Solids Volatile Suspended Solids Cadmium, Total Chromium Copper, Total Iron Lead, Total Manganese Zinc, Total	1.5 2.8 30 5 <0.01 <0.01 <0.05 <0.1 <0.01	Mg/L Mg/L Mg/L Mg/L	5001	5001 5006
		07-15-71 1115	Secchi Disk	2.3	Ft.	5001	5001
		08-03-71 1345	Secchi Disk BOD (7 days) Suspended Solids Volatile Suspended Solids Cadmium, Total Chromium Copper, Total Iron Lead, Total Manganese Zinc, Total	0.2 <0.01 <0.05	Mg/L Mg/L Mg/L Mg/L	5001	5001 5006
		08-17-71 1535	Secchi Disk	1.5	Ft.	5001	5001
		08-31-71 1245	Secchi Disk BOD (7 days) Suspended Solids	0.9 1.7 93	Ft. Mg/L Mg/L	5001 5001	500 l 5006
		09-15-71	Volatile Suspended Solids Secchi Disk	10 2.2	Mg/L Ft.	5001	5001
		1415 09-28-71 1050	Secchi Disk BOD (7 days) Suspended Solids Volatile Suspended Solids	1.3 1.1 18 6	Ft. Mg/L Mg/L Mg/L	5001	500 I 5006

Station Number	Station	Date Time	Constituents		Samp	Lab
ЕО В 802.5 208.1	SUISUN BAY AT BENICIA (MIDDLE OF PIER)	06-03-71 1015	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.0 Mg/L 0.00 Mg/L 0.00 Mg/L 0.2 Ug/L 0.00 Mg/L	5050	5050
ЕО В 802.8 155.0	SACRAMENTO RIVER AT CHIPPS ISLAND	10-07-70 1200	Secchi Disk BOD (5 days) Suspended Solids	0.7 Ft. 1.4 Mg/L	5001	5001
		11-20-70 1130	Secchi Disk BOD (5 days) Suspended Solids Cadmium	87 Mg/L 1.3 Ft. 0.7 Mg/L 18 Mg/L <0.01 Mg/L	5001 5001 5001	5006 5001 5006
			Chromium Copper Iron Lead Manganese, Total Zinc	<0.01 Mg/L <0.05 Mg/L <0.1 Mg/L <0.01 Mg/L <0.05 Mg/L <0.05 Mg/L <0.1 Mg/L		
		03-04-71 1000	Secchi Disk BOD (7 days) Suspended Solids	0.9 Ft. 1.2 Mg/L 45 Mg/L	5001 5001	5001 5006
		03-24-71 1345	Secchi Disk	0.8 Ft.	5001	5001
		04-06-71 1245	Secchi Disk BOD (5 days) BOD (7 days)	0.8 Ft. 1.4 Mg/L 1.6 Mg/L	5001	5001
		04-21-71 1255	Secchi Disk	1.0 Ft.	5001	5001
		05-04-71 1305	Secchi Disk BOD (7 days) Suspended Solids Cadmium, Total Chromium Copper, Total Iron Lead, Total Manganese	1.4 Ft. 1.3 Mg/L 30 Mg/L <0.01 Mg/L <0.01 Mg/L <0.05 Mg/L <0.01 Mg/L <0.01 Mg/L <0.01 Mg/L <0.01 Mg/L	5001 5001	5001
		05-19-71 1335	Secchi Disk	1.1 Ft.	5001	5001
		06-02-71 1235	Secchi Disk BOD (7 days) Suspended Solids Volatile Suspended Solids Cadmium, Total Chromium Copper, Total Iron Lead, Total Manganese Zinc, Total	1.4 Ft. 1.4 Mg/L 36 Mg/L 9 Mg/L <0.01 Mg/L <0.01 Mg/L <0.01 Mg/L <0.1 Mg/L <0.0 Mg/L <0.0 Mg/L <0.0 Mg/L <0.0 Mg/L <0.0 Mg/L <0.0 Mg/L <0.0 Mg/L	5001	5001
		06-16-71 1150	Secchi Disk	1.3 Ft.	5001	5001
		06-30-71 1105	Secchi Disk BOD (7 days) Suspended Solids Volatile Suspended Solids Cadmium, Total Chromium Copper, Total Iron Lead, Total Manganese Zinc, Total	1.2 Ft. 1.7 Mg/L 34 Mg/L 5 Mg/L <0.01 Mg/L <0.01 Mg/L <0.05 Mg/L <0.05 Mg/L <0.01 Mg/L <0.01 Mg/L <0.01 Mg/L <0.01 Mg/L	5001	5001
		07-15-71 1205	Secchi Dísk	1.3 Ft.	5001	5001
		08-03-71 1520	Secchi Disk BOD (7 days) Suspended Solids	0.8 Ft. 1.7 Mg/L	5001	5001
			Suspended Solids Volatile Suspended Solids Cadmium, Total Chromium Copper, Total Iron Lead, Total Manganese Zinc, Total	57 Mg/L 6 Mg/L <0.01 Mg/L <0.01 Mg/L 0.05 Mg/L 0.1 Mg/L <0.01 Mg/L <0.01 Mg/L <0.03 Mg/L 0.03 Mg/L	5001	5006
		08-31-71 1430	Secchi Disk BOD (7 days) Suspended Solids	1.2 Ft. 1.4 Mg/L 60 Mg/L	5001 5001	5001 5006

Station Number	Station	Date Time	Constituents		Samp	Lob
EO B 802.8 155.0	SACRAMENTO RIVER AT CHIPPS ISLAND (Continued)	09-15-71 1500	Secchi Disk Cadmium, Total Chromium Copper, Total Iron Lead, Total Manganese Zinc, Total	0.8 Ft. <0.01 Mg/I <0.01 Mg/I <0.05 Mg/I 0.1 Mg/I <0.01 Mg/I <0.01 Mg/I <0.00 Mg/I 0.02 Mg/I	•	5001 5006
		09-28-71 1230	Secchi Disk BOD (7 days) Suspended Solids Volatile Suspended Solids	1.3 Ft. 1.2 Mg/I 26 Mg/I 5 Mg/I	5001	5001 5006
EO B 803.2 204.8	SUISUN BAY ABOVE AVON PIER	10-09-70 1235	Secchi Disk	1.2 Ft.	5001	5001
		03-04-71 0845	Secchi Disk BOD (5 days)	1.1 Ft. 1.8 Mg/I	5001	5001
EO B 803.5 217.0	SAN PABLO BAY NEAR RODEO	03-24-71 1200	Secchi Disk BOD (5 days) BOD (7 days)	2.0 Ft. 0.5 Mg/I 1.2 Mg/I		5001
		04-21-71 1120	Secchi Disk BOD (7 days)	1.2 Ft. 1.1 Mg/I	5001	5001
		05-19-71 1200	Secchi Disk BOD (7 days) Suspended Solids Volatile Suspended Solids	1.1 Ft. 2.0 Mg/L 34 Mg/L 4 Mg/L	5001	5001 5006
		06-06-71 1005	Secchi Disk Suspended Solids Volatile Suspended Solids	1.8 Ft. 27 Mg/L 7 Mg/L		5001 5006
	•	07-15-71 1025	Secchi Disk BOD (7 days) Suspended Solids Volatile Suspended Solids	1.7 Ft. 1.0 Mg/I 31 Mg/I 2 Mg/I	5001	5001 5006
		08-17-71 1500	Secchi Disk BOD (7 days) Suspended Solids Volatile Suspended Solids	1.3 Ft. 1.3 Mg/I 39 Mg/I 5 Mg/L	5001	5001 5006
		09-15-71 1340	Secchi Disk BOD (7 days) Suspended Solids Volatile Suspended Solids	2.1 Ft. 0.9 Mg/L 11 Mg/L 5 Mg/L	5001	5001 5006
EO B 803.6 159.3	SUISUN BAY OFF MIDDLE POINT NEAR NICHOLS	10-09-70 1310 03-04-71	Secchi Disk BOD (5 days) Secchi Disk	0.8 Ft. 1.7 Mg/L 0.7 Ft.	5001	5001 5001
		0915 05-04-71	Secchi Disk	0.8 Ft.	5001	5001
		1215 06-02-71	Secchi Disk	1.3 Ft.	5001	5001
		1150 06-30-71	Secchi Disk	0.8 Ft.	5001	5001
		1020 08-03-71 1435	Secchi Disk	0.9 Ft.	5001	5001
		08-31-71 1340	Secchi Disk	0.8 Ft.	5001	5001
		09-28-71 1145	Secchi Disk	1.0 Ft.	5001	5001
EO B 804.0 203.0	SUISUN BAY NEAR PRESTON POINT	10-09-70 1245	Secchi Disk BOD (5 days)	0.9 Ft. 2.0 Mg/L	5001	5001
		03-04-71 0900	Secchi Disk	0.6 Ft.	5001	5001
		05-04-71 1150	Secchi Disk Cadmium, Total Chromium Copper, Total Iron Lead, Total Manganese Zinc, Total	0.3 Ft. 0.01 Mg/L <0.01 Mg/L <0.05 Mg/L <0.1 Mg/L <0.01 Mg/L <0.05 Mg/L <0.01 Mg/L		5001 5006
		06-02-71 1130	Secchi Disk Cadmium, Total Chromium Copper, Total Iron Lead, Total Manganese Zinc, Total	1.1 Ft. <0.01 Mg/L <0.01 Mg/L 0.06 Mg/L 0.1 Mg/L <0.01 Mg/L <0.05 Mg/L 0.03 Mg/L	5001 5001	5001 5006

Station Number	Station	Dote Time	Constituents			Samp	Lob
ЕО В 804.0 203.0	SUISUN BAY NEAR PRESTON POINT (Continued)	06-30-71 0955	Secchi Disk Cadmium, Total Chromium Copper, Total Iron Lead, Total Manganese Zinc, Total	0.8 <0.01 <0.01 <0.05 <0.1 <0.01 <0.05 0.04	Mg/L Mg/L Mg/L Mg/L Mg/L	5001 5001	5001 5006
		08-03-71 1415	Secchi Disk Cadmium, Total Chromium Copper, Total Iron Lead, Total Manganese Zinc, Total	1.0 <0.01 <0.01 0.06 <0.1 <0.01 <0.05 0.04	Mg/L Mg/L Mg/L Mg/L	5001 5001	5001 5006
		08-31 <b>-</b> 71 1310	Secchi Disk	0.7	Ft.	5001	5001
		09-28-71 1115	Secchi Disk	0.8	Ft.	5001	5001
EO B 804.4 156.2	HONKER BAY NEAR WHEELER POINT	10 <b>-</b> 09-70 1330	Secchi Disk BOD (5 days)	0.7 1.7	Ft. Mg/L	5001	5001
		03-04-71 0935	Secchi Disk BOD (7 days)	0.8	Ft. Mg/L	5001	5001
		03-23-71	Suspended Solids Secchi Disk	39 0.8	Mg/L Ft.	5001 5001	5006
		1135 04-06-71 1215	Secchi Disk BOD <b>(</b> 5 days)	1.0	Ft. Mg/L	5001	5001
		04-20-71	BOD (7 days) Secchi Disk	0.9	Mg/L Ft.	5001	500
		1030 05-04-71	Secchi Disk	1.2	Ft.	5001	5001
		1240	BOD (7 days) Suspended Solids	32	Mg/L Mg/L Ft.	5001 5001	5006 5001
		05-18-71 1020	Secchi Disk				
		06-02-71 1210	Secchi Disk BOD (7 days) Suspended Solids Volatile Suspended Solids	1.3 1.5 54 10	Ft. Mg/L Mg/L Mg/L	5001	500
		06-15-71 0940	Secchi Disk	1.0	Ft.	5001	5001
		06-30-71 1035	Secchi Disk BOD (7 days) Suspended Solids	0.8 1.8 50	Ft. Mg/L Mg/L	5001 5001	500 i
		07-14-71	Volatile Suspended Solids Secchi Disk	5 0.7	Mg/L Ft.	5001	500
		0835 08-03-71 1455	Secchi Disk BOD (7 days) Suspended Solids	0.8 1.7 72	Ft. Mg/L Mg/L	5001 5001	5001 5006
		08-16-71	Volatile Suspended Solids Secchi Disk	0.8	Mg/L Ft.	5001	5001
		1245 08-31-71	Secchi Disk	0.7	Ft.	5001	5001
		1400	BOD (7 days) Suspended Solids Volatile Suspended Solids	1.2 87 10	Mg/L Mg/L Mg/L	5001	5006
		09-14-71 1310	Secchi Disk	1.0	Ft.	5001	5001
		09-28-71 1200	Secchi Disk BOD (7 days)	1.1	Ft. Mg/L	5001	5001
		1200	Suspended Solids Volatile Suspended Solids	44 8	Mg/L Mg/L	5001	5006
EO B 805.3 226.3	SAN PABLO BAY NEAR MOUTH OF PETALUMA RIVER	03-24-71 1100	Secchi Disk BOD (5 days) BOD (7 days)	1.4 0.5 0.5	Ft. Mg/L Mg/L	5001	5001
		04-21-71 1015	Secchi Disk BOD (7 days)	1.1	Ft. Mg/L	5001	5001
		05-19-71 1050	Secchi Disk BOD (7 days) Suspended Solids Volatile Suspended Solids	0.8 1.7 38 6	Ft. Mg/L Mg/L Mg/L	5001 5001	500 i
		06-16-71 0840	Secchi Disk Suspended Solids Volatile Suspended Solids	1.8 16 0	Ft. Mg/L Mg/L	5001 5001	500 I

Station Number	Station	Dote Time	Constituents			Samp	Lob
EO B 805.3 226.3	SAN PABLO BAY NEAR MOUTH OF PETALUMA RIVER (Continued)	07-15-71 0915	Secchi Disk BOD (7 days)	1.5	Ft. Mg/L	5001	5001
		08-17-71	Suspended Solids Volatile Suspended Solids Secchi Disk	32 3 0.8	Mg/L Mg/L Ft.	5001	5006
		1335	BOD (7 days) Suspended Solids Volatile Suspended Solids	1.5 19 8	Mg/L Mg/L Mg/L	5001	5006
		09-15-71 1240	Secchi Disk BOD (7 days) Suspended Solids Volatile Suspended Solids	3.5 2.3 10 5	Ft. Mg/L Mg/L Mg/L	500 l 500 l	5001 5006
EO B 807.0 202.3	GRIZZLY BAY AT DOLPHIN NEAR SUISUN SLOUGH	10-07-70 1000	Secchi Disk BOD (5 days)	0.4	Ft. Mg/L	5001	5001
		11-20- <b>7</b> 0 1000	Suspended Solids Secchi Disk BOD (5 days)	245 0.7 0.8	Mg/L Ft. Mg/L	5001 5001	5006 5001
		03-04-71	Suspended Solids Secchi Disk	65	Mg/L Ft.	5001 5001	5006 5001
		0755	BOD (7 days) Suspended Solids	0.9	Mg/L Mg/L	5001	5006
		03-23-71 1030	Secchí Disk	1.0	Ft.	5001	5001
		04-06-71 1030	Secchi Disk BOD (5 days) BOD (7 days)	0.8 0.9 1.0	Ft. Mg/L Mg/L	5001	5001
		04-20-71 0955	Secchi Disk	0.4	Ft.	5001	5001
	•	05-04-71 1015	Secchi Disk BOD (7 days) Suspended Solids Cadmium, Total	0.7 1.1 88 0.01	Ft. Mg/L Mg/L Mg/L	5001 5001	5001 5006
			Chromium Copper, Total Iron Lead, Total Manganese Zinc, Total	<0.01 <0.05 <0.1 <0.01 <0.05 <0.01	Mg/L Mg/L Mg/L Mg/L Mg/L		
		05-18-71 0920	Secchi Disk	0.7	Ft.	5001	5001
		06-02-71 1020	Secchi Disk BOD (7 days) Suspended Solids Volatile Suspended Solids Cadmium, Total Chromium Copper, Total Iron Lead, Total Manganese Zinc, Total	0.7 1.7 84 10 <0.01 <0.01 0.06 <0.1 <0.01 <0.05 0.03	Mg/L Mg/L Mg/L	5001	5001
		06-15-71 0900	Secchi Disk	0.8	Ft.	5001	5001
		06-30-71 0835	Secchi Disk BOD (7 days) Suspended Solids Volatile Suspended Solids Cadmium, Total Chromium Copper, Total Iron Lead, Total Manganese Zinc, Total	0.6 1.9 95 10 <0.01 <0.05 <0.1 <0.05 <0.00 0.05		5001	5001
		07-14-71 0745	Secchi Disk	0.8	Ft.	5001	5001
		08-03-71 1300	Secchi Disk BOD (7 days) Suspended Solids Volatile Suspended Solids Cadmium, Total Chromium Copper, Total Iron Lead, Total Manganese	0.8 2.6 68 9 <0.01 <0.01 0.09 0.2 <0.01 <0.05	Mg/L Mg/L Mg/L Mg/L Mg/L	5001	5001
		08-16-71	Zinc, Total Secchi Disk	0.03	Mg/L Ft.	5001	5001
		1200 08-31-71	Secchi Disk	0.6	Ft.	5001	5001

Station Number	Station	Dote Time	Constituents			Samp	Lo
SO B 807.0 202.3	GRIZZLY BAY AT DOLPHIN NEAR SUISUN SLOUGH (Continued)	08-31-71 1200	Suspended Solids Volatile Suspended Solids	Mg/L Mg/L	5001	500	
	(COTE FIRES)	09-14-71 1200	Secchi Disk Cadmium, Total Chromium Copper, Total Iron Lead, Total Manganese Zinc, Total	7 0.7 <0.01 <0.01 <0.05 <0.1 <0.01 <0.05 0.02	Ft. Mg/L Mg/L Mg/L Mg/L Mg/L Mg/L	5001 5001	500 500
		09-28-71 0950	Secchi Disk BOD (7 days)	0.8	Ft. Mg/L	5001	500
		0730	Suspended Solids Volatile Suspended Solids	35	Mg/L Mg/L	5001	500
CO S 809.2 205.3	CORDELIA SLOUGH AT CYGNUS	10-07-70 0840	Secchi Disk BOD (5 days)	0.5	Ft. Mg/L	5001	500
		11-0 <b>6-7</b> 0 0920	Secchi Disk BOD (5 days) Suspended Solids	0.7 1.4 109	Ft. Mg/L Mg/L	5001 5001	500 500
		12-09-70 1040	Secchi Disk BOD (5 days)	0.5	Ft. Mg/L	5001	500
		01-06-71 1020	Secchi Disk BOD (5 days)	0.6	Ft. Mg/L	5001	500
		02-05-71 1000	Secchi Disk BOD (5 days) BOD (7 days)	0.5 1.1 1.6	Ft. Mg/L Mg/L	5001	500
		03-05-71 0915	Secchi Disk BOD (5 days) BOD (7 days)	0.4 1.4 1.8	Ft. Mg/L Mg/L	5001	500
		04-05-71 1020	Secchi Disk	0.4	Ft.	5001	500
		05-17-71 1115	Secchi Disk BOD (5 days) Suspended Solids Volatile Suspended Solids	0.5 2.9 193 20	Ft. Mg/L Mg/L Mg/L	5001	500
		06-18-71 1015	Secchi Disk BOD (5 days)	0.4	Ft. Mg/L	5001	500
		07-30-71 1005	Secchi Disk BOD (5 days)	0.7	Ft. Mg/L	5001	50
		08-27-71 0900	Secchi Disk Suspended Solids Volatile Suspended Solids	0.5 62 2	Ft. Mg/L Mg/L	5001 5001	500 500
		09-27-71 1000	Secchi Disk BOD (7 days)	0.4	Ft. Mg/L	5001	500
0 S 810.8 202.8	SUISUN SLOUGH AT VOLANTI SLOUGH ON JOICE ISLAND	10-07-70 1040	Secchi Disk BOD (5 days)	0.5	Ft. Mg/L	5001	500
		11-06-70 1215	Secchi Disk BOD (5 days)	0.6 1.4 72	Ft. Mg/L	5001 5001	500
		12-09-70	Suspended Solids Secchi Disk	0.5	Mg/L Ft.	5001	500
		1305 01-06-71 1245	BOD (5 days)  Secchi Disk  BOD (5 days)	2.5 0.6 1.5	Mg/L Ft. Mg/L	5001	500
		02-05-71 1255	Secchi Disk BOD (5 days) BOD (7 days)	0.4 1.3 1.8	Ft. Mg/L Mg/L	5001	500
		03-05 <b>-</b> 71 1115	Secchi Disk BOD (5 days) BOD (7 days)	0.4 1.7 2.4	Ft. Mg/L Mg/L	5001	500
		04-05-71 1305	Secchi Disk	0.5	Ft.	5001	500
		05-17-71 1405	Secchi Disk BOD (5 days)	0.7	Ft. Mg/L	5001	500
		06-19 71	Suspended Solids Volatile Suspended Solids	112 16 0.4	Mg/L Mg/L Ft.	5001	500
		06-18-71 1240 07-30-71	Secchi Disk BOD (5 days) Secchi Disk	3.1	Mg/L Ft.	5001	500
		1230	BOD (5 days) Secchi Disk	2.2	Mg/L Ft.	5001	500
		1240	Suspended Solids Volatile Suspended Solids	29 3	Mg/L Mg/L	5001	50
		09-27-71 1250	Secchi Disk BOD (7 days)	0.7 2.6	Ft. Mg/L	5001	500

Statian Number	Station	Date Time	Canstituents			Samp	Lab
EO S 811.0 204.8	CHADBOURNE SLOUGH AT CHADBOURNE ROAD NEAR SUISUN	10-07-70 0950	Secchi Disk BOD (5 days)	0.8	Ft. Mg/L	5001	5001
		11-06-70 1040	Secchi Disk BOD (5 days) Suspended Solids	0.7 2.0 77	Ft. Mg/L Mg/L	5001 5001	5001 5006
		12-09-70 1215	Secchi Disk BOD (5 days)	0.6	Ft. Mg/L	5001	5001
		01-06-71 1110	Secchi Disk BOD (5 days)	0.6	Ft. Mg/L	5001	5001
		02-05-71 1120	Secchi Disk BOD (5 days) BOD (7 days)	0.4 1.2 1.8	Ft. Mg/L Mg/L	5001	5001
		03-05-71 1015	Secchi Disk BOD (5 days) BOD (7 days)	0.5 2.0 9.3	Ft. Mg/L Mg/L	5001	5001
		04-05-71 1155	Secchi Disk	0.4	Ft.	5001	5001
		05-17-71 1250	Secchi Disk BOD (5 days) Suspended Solids Volatile Suspended Solids	0.5 4.4 187 17	Ft. Mg/L Mg/L Mg/L	5001 5001	5001 5006
		06-18-71 1135	Secchi Disk BOD (5 days)	0.4	Ft. Mg/L	5001	5001
		07-30-71 1120	Secchi Disk BOD (5 days)	0.4	Ft. Mg/L	5001	5001
		08-27-71 1115	Secchi Disk Suspended Solids Volatile Suspended Solids	0.5 103 10	Ft. Mg/L Mg/L	5001 5001	5001 5006
		09-27-71 1115	Secchi Disk BOD (7 days)	0.8	Ft. Mg/L	5001	5001
E0 S 811.2 158.5	MONTEZUMA SLOUGH AT GRIZZLY ISLAND ROAD	10-07-70 1110	Secchi Disk BOD (5 days)	0.8	Ft. Mg/L	5001	5001
		11-06-70 1300	Secchi Disk BOD (5 days)	0.7	Ft. Mg/L	5001	5001
		12-09-70	Suspended Solids Secchi Disk	61	Mg/L Ft.	500 1 500 1	5006 5001
		1345	BOD (5 days) Secchi Disk	2.9	Mg/L Ft.	5001	5001
		1320	BOD (5 days)	1.3	Mg/L		
		02-05-71	Secchi Disk BOD (5 days) BOD (7 days)	0.3 1.3 1.8	Ft. Mg/L Mg/L Ft.	5001	5001
		03-05-71 1220	Secchi Disk BOD (5 days) BOD (7 days)	0.4 1.7 2.4	Mg/L Mg/L	2001	3001
		04-05-71 1345	Secchi Disk	0.7	Ft.	5001	5001
		05-17-71 1450	Secchi Disk BOD (5 days) Suspended Solids	0.5 1.8 98 11	Ft. Mg/L Mg/L Mg/L	5001 5001	5001 5006
		06-18-71 1320	Volatile Suspended Solids Secchi Disk BOD (5 days)	0.5	Ft. Mg/L	5001	5001
		07-30-71 1310	Secchi Disk BOD (5 days)	0.5	Ft. Mg/L	5001	5001
		08-27-71 1330	Secchi Disk Suspended Solids Volatile Suspended Solids	0.7 67 6	Ft. Mg/L Mg/L	5001 5001	5001 5006
		09-27-71 1320	Secchi Disk BOD (7 days)	0.6 1.8	Ft. Mg/L	5001	5001
EO S 811.5 207.2	CORDELIA SLOUGH AT UPPER END NEAR CORDELIA	10-07-70 0910	Secchi Disk BOD (5 days)	1.0	Ft. Mg/L	5001	5001
		04-05-71 1120	Secchi Disk	0.7	Ft.	5001	5001
		05-17-71 1205	Secchi Disk BOD (5 days) Suspended Solids Volatile Suspended Solids	0.5 2.5 141 17	Ft. Mg/L Mg/L Mg/L	5001 5001	5001 5006
		06-18-71 1100	Secchi Disk BOD (5 days)	0.5	Ft. Mg/L	5001	5001
		07-30-71 1040	Secchi Disk BOD (5 days)	0.3	Ft. Mg/L	5001	5001

		04-05-7 1415		
		06-18-7. 1345		
		07-30-7 1335		
		08-27-7 1400		
		09-27-7 1345		
E3 1250.00	NAPA RIVER NEAR NAPA	05-13-7 1100		
E3 2100.51	GREEN VALLEY CREEK AT CORDELIA	11-06-70 1005		
		12-09-7 1115		
		01-06-7 1040		
		02-05-7 1030		
		03-05-7 0950		
E4 4180.01	WALNUT CREEK AT HIGHWAY 4	06-09-7 0900		
Pr 1/00 00		ac aa =		
E5 1400.00	ARROYO VALLE NEAR LIVERMORE	06-09-7 1000	pariun Cadmium	0.00 Mg/L
			Lead Mercury, Total Selenium	0.00 Mg/L 0.2 Ug/L 0.00 Mg/L
E6 5100.00	SARATOGA CREEK AT SARATOGA	06-09-71 1120	Arsenic Barium	0.00 Mg/L 5050 5050 0.1 Mg/L
			Cadmium Lead Mercury, Total	0.00 Mg/L 0.00 Mg/L 0.1 Ug/L
F8 2100.00	NAVARRO RIVER NEAR NAVARRO	05-05-71	Selenium Arsenic	0.00 Mg/L 0.00 Mg/L 5050 5050
			Barium Cadmium	0.0 Mg/L 0.00 Mg/L
			Lead Mercury Selenium	0.00 Mg/L 0.0 Ug/L 0.00 Mg/L
				Α.,

Station Number	Station	Dote Time		Constituents	Somp	Lob
3100.00	NOYO RIVER NEAR FORT BRACC	05-05-71 	Arsenic Barium Cadmium Lead Mercury Selenium	0.00 Mg/L 0.0 Mg/L 0.00 Mg/L 0.00 Mg/L 0.0 Ug/L 0.00 Mg/L	5050	5050
1100.00	RUSSIAN RIVER NEAR GUERNEVILLE	05-13-71 0800	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.1 Mg/L 0.00 Mg/L 0.00 Mg/L 0.0 Ug/L 0.00 Mg/L	5050	5050
1765.00	RUSSIAN RIVER NEAR HOPLAND	05-20-71 1630	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.1 Mg/L 0.00 Mg/L 0.00 Mg/L 0.0 Ug/L 0.00 Mg/L	5000	505
1850.00	RUSSIAN RIVER NEAR UKIAH	05-20-71 1300	Arsenic Barium Cadmium Lead Mercury, Total Selenium	0.00 Mg/L 0.1 Mg/L 0.00 Mg/L 0.00 Mg/L 0.0 Mg/L 0.00 Mg/L	5000	505
			Selenium	0.00 Mg/L		

#### TABLE D-4

#### NUTRIENT ANALYSIS OF SURFACE WATER

### Lab and Sampler Agency Codes

5000	- U. S. Geological Survey
5001	- U. S. Bureau of Reclamation
5050	- Department of Water Resources
5063	- Santa Cruz County Health Department

#### Abbreviations

TIME	-	Pacific Standard Time on a 24-hour clock
G.H. Q	<u>-</u> -	Instantaneous gage height in feet above an established datum Instantaneous discharge measured in cubic feet per second
TEMP TURB		Water temperature in degrees Fahrenheit (F) or Celsius (C) Jackson Turbidity Units measured with a Hellege Turbidmeter (E) or a Hach Nephelometer (A)
PH	-	Measure of acidity or alkalinity of water
EC	-	Electrical conductance in micromhos at 25° C
HCO3 CO3	<u>-</u> -	Bicarbonate Carbonate

#### Nitrogen Series as N

NH3	-	Unfiltered ammonia
NO3 ORG N	- -	Unfiltered nitrate Organic nitrogen
DIS ORG N	-	Dissolved organic nitrogen
NH3 +	-	Ammonia plus organic nitrogen

NO2 - Unfiltered nitrite

### Phosphorus Series as P

FIL A.H.PO4	Filterable	acid hydrolyzable phosphate
		orthophosphate orthophosphate
		total phosphorus total phosphorus

# TABLE D-4 (CONTINUED) NUTRIENT ANALYSIS OF SURFACE WATER

					NUTRIE	NT ANALY	SIS OF SURFAC	E WATER					
DATE TIME	SAMP LAB	G.H. Q	TEMP TURB	FI LABOH PH	ELD ATDRY EC	L/AR HC03 C03	50N EHN	NO3 ORG N	DIS ORG N	TS IN MI NH3 + DKG N	A.H.P04	LITER F PO4 U PO4	F TOT P U TOT P
	DO	1100.		BRANCIFORT									
3/15/71	5063		54 F	7.5	273	71						0.08	
1530 9/27/71	5050 5063		30E 57.0F	7.7 8.0	262 485	186						0.17	
1230	5050 D0	1180.	30E	R.1 SAN LORENZ	469 O RIVER	O AT PAKA	DISE PARK						
3/15/71	5063	11000	52 F	7.8	289	100						80.0	
9/27/71	5050 5063		35E 54.0F	7.8 7.9	297 350	0 132						0.16	
1010	5050		3E	8.0 ZAYANTE CF	354	0							
3/15/71	5063	1220.	51 F	7.7	372	119						0.20	
9/27/71	5050 5063		550E 52.0F	7.9 7.8	367 380	0 126						0.33	
0940	5050		2€	8.1	377	0	250 2255						
3/15/71		2.22	01 47 F	5AN LORENZ 7.6	315	98 98	DEM CHEEK					0.05	
1000	5050	3.5	80E 54.0F	7.8 7.8	306 520	0 184						0.10	
0900	5050		15E	8.1	514	0		***				••••	
3/15/71	5063	3.24	00 53 F	APTOS CREE	K BELOW	VALENCI 208	A CHEEK AT AP	105				0.13	
1350	5050	5.3	100€	8.3	550 670	0 306						0.21	
1350	5050		57.0F 2E	8.4 8.4	863	5						.,.21	
3/15/71	5063	3100.	00 58 F	50QUEL CRE	EK AT 9	174						0.06	
1430	5050	35	4 SE	8.1	525	0							
9/27/71	5063 5050	2.48	66.0F 1E	8.4 8.5	710 705	224 6						0.14	
3/15/71		4010.	01 48 F	SCOTT CREE	K AT HI	GHWAY 1 58	NEAR DAVENPOR	T				0.02	
0900	5050		158	7.5	212	0							
9/27/71 0750	5063 5050		53.0F 2F	7.4 7.8	1150 611	114						0.07	
		8 735.	0 215.0			AT SAN	MATEO BRIDGE (	5HIP CHAN	NFL)			0.20	
3/16/71 1020	5050 5050		53 F 30€	8.0	37000 32200		80.0	0.3		0.38	0.04		0.28
4/13/71 0920	505 <b>0</b> 5050		58 F 15E	8.1	36000 33700		0.02	0.43 0.2		0.22	0.00	0.18	0.23
6/23/71 0810	5050 5050		65 F 6E	8.3	39000 36400		0.00	0.45 0.4		0.4	0.00	0.34	0.46
7/08/71 0820	5050 5050		67 F 4E	8.2	40000 38100		0.00	0.12		0.2	0.04	0.26	0.31
8/10/71	5050 5050		70 F 8E	8.0	39500		0.00	0.26 0.3		0.3	0.06	0.30	0.36
9/21/71	5050		70 F	8.1				0.36				0.39	
0915	5050	9 736.	9E 2 211.6	SAN FRANCI	41900 500 BAY	AT SAN	0.00 MATEO BRIDGE	0.1		0 • 1	0.01		0.46
10/21/70	5050		61 F		42000			0.31		1.91	0.03	0.33	0.38
1000	5050 5050		6E 59 F	8.2	43700 41000		0.51	1.4 0.39				0.26	
0950 12/16/70	5050 5050		10E 52 F	7.7	41800 32000		0.06	2.8		0.26	0.00	0.15	0.28
0815	5050		25€		33000		0.16	0.0		0.16	0.08		0.24
1/28/71 0750	5050 5050		51 F 45E	8.0	30500 29100		80.0	0.43		0.08	0.01	0.13	0.14
2/17/71 1330	5050 5050		54 F 20E	8.0	33000 29200		0.08	0.49 0.3		0.38	0.04	0.17	0.21
5/11/71 0810	5050 5050		57.0F 40E	7.9	40000 31800		0.15	0.43 0.2		0.35	0.05	0.29	0.37
	ΕO	R 736.	2 212.0	SAN FRANC	15C0 BA	AT SAN	MATEO BRIDGE	(PIER 662	)				
6/23/71 0845	5050 5050		65 F 8E	8.4	39000 37400		0.00	0.05 0.2		0.2	0.00	0.17	0.24
7/08/71 0915	5050 5050		65 F 3E	8.2	40000 38000		0.00	0.04 0.2		0.2	0.04	0.15	0.20
8/10/71 1115	5050 5050		70 F 9E	8.1	40100		0.00	0.12 0.2		0.2	0.06	0.23	0.31
9/21/71	5050		70 F	8.3				0.04			0.00	0.36	0.42
1050	5050		4E		41400		0.00	0.2		0.2	0.00		V • ♥ €

## TABLE D-4 (CONTINUED)

				NUTRI	ENT ANALY	SIS OF SURFA	CE WATER				
OATE TIME	SAMP LAB	G.H. JEMP O TURB	LABO Ph	1ELO RATORY EC	LAR HCO3 CO3	SON EHN	NO3 ORG N	CONSTITUENTS IN MI DIS NH3 + ORG N ORG N	FIL. A.H.PO4	F P04 U P04	F TOT P U TOT P
	E	B 748.1 222.4	SAN FRANC	ISCO BA	Y WEST OF	YERBA BUENA	ISLAND				
10/21/70 1030	5050 5050	59 F 4E	7.8	41000 41000		0.01	0.28 0.6	0.61	0.00	0.09	0.09
11/17/70	5050 5050	58 F 8E	8.2	41000 40200		0.04	0.24	0.04	0.00	0.08	0.10
12/16/70 1030	5050 5050	53 F 12E	7.9	31000 32500		0.00	4.0 0.2	0.2	0.02	0.07	0.10
1/28/71 0730	5050 5050	50 F 20E	7.4	33000 30200		0.01	0.28	0.01	0.01	0.06	0.10
2/17/71 1350	5050 5050	52 F 7E	7.9	34000 30500		0.00	0.31 0.1	0.1	0.02	0.06	0.08
3/16/71 1005	5050 5050	52 F 7E	8.0	42000 3770 <b>0</b>		0.00	0.39 0.1	0.1	0.01	0.09	0.14
4/13/71	5050 5050	55 F 76	8.1	36000 33900		0.05	0.30 0.1	0.15	0.00	0.06	0.09
0910 5/11/71 0812	5050 5050	60.5F 15E	8.0	35000 36800		0.09	0.31	0.09	0.08	0.10	0.18
0412		B 749.2 222.4	SAN FRANC		Y AT TREA	SUPE ISLAND	0.0	0.07	0.00		0.10
6/23/71 0700	5050 5050	59 F 9E	8.2	40500 39200		0.01	0.36 0.2	0.21	0.00	0.10	0.15
7/08/71 0640	5050 5050	61 F 7E	7.7	43000 39800		0.00	0.34	0.0	0.03	0.11	0.15
8/10/71	5050 5050	64 F 6E	7.9	41500		0.00	0.25 0.1	0.1	0.04	0.11	0.15
9/21/71	5050 5050	63 F 3E	7.9	40100		0.00	0.21 0.3	0.3	0.02	0.09	0.14
		B 757.7 226.2	SAN PABLO		WEST OF	THE BROTHERS					
10/21/70	5050 5050	60 F 3E	7.9	35000 35500		0.01	0.29 0.5	0.51	0.00	0.08	0.08
11/17/70 1145	5050 5050	59 F 6E	8.2	38000 35300		0.04	0.29 0.1	0.14	0.00	0.08	0.09
12/16/70 1220	5050 5050	51 F 20E	7.5	13000 13700		0.05	3.0 0.3	0.35	0.03	0.06	0.10
1/28/71 1000	5050 5050	50 F 25E	7.5	28000 25600		0.02	0.33 0.1	0.12	0.02	0.04	0.06
2/17/71 1450	5050 5050	52 F 15E	7.8	21000 18500		0.05	0.33 0.5	0.55	0.02	0.06	0.08
3/16/71 1050	5050 5050	53 F 10E	7.8	15000 22600		0.01	0.40 0.3	0.31	0.02	0.09	0.11
4/13/71 1010	5050 5050	56 F 25E	7.8	21500 20100		0.06	0.23 0.0	0.06	0.03	0.05	0.08
5/11/71	5050 5050	59.0F 30E	7.8	20800 25200		0.12	0.23	0.12	0.02	0.07	0.09
		8 801.8 222.3	SAN PABLO		AR PINOLE						
3/24/71 1130	5001 5000	12 C 14A	7.7	38100		5.10	0.3 0.47	5.57		0.26	0.31
4/21/71 1055	5001 5000	13 C 13A	7.8	27300	105 0	2.60	0.3	2.82		0.18	0.28
5/19/71 1130	5001 5000	16 C 8A	7.9	25500	61 0	3.80	0.3 0.24	0.19 4.04		0.05	0.13
6/16/71 0930	5001 5000	17 C 6A	7.5	27800	108 0	2.00	0.2 0.26	0.17 2.26		0.07	0.12
7/15/71 0950	5001 5001	18 C	7.8	32500	113 0	0.09	0.3			0.13	0.15
8/17/71 1430	5001 5001	19 C 10A	8.1	36200	118 0	0.09	0.3			0.15	0.20
9/15/71 1310	5001 5001	21 C	7.8	34700	74 0	0.06	0.2			0.12	0.19
		8 802.3 207.1		OFF 8	JLLS HEAD	POINT AT MAI					
10/07/70	5001 5000	17 C 28A	7.7	15100		0.00	0.09	0.24 0.34		0.09	0.19
11/20/70 1035	5001 5000	15 C 22A	7.6	16500		0.08	0.16 0.69	0.65 0.77		0.09	0.13
3/04/71 08/5	5001 5000	10 C 28A	6.7	14800	96 0	1.20	0.20 0.18	0.12 1.38		0.09	0.13
4/06/71 1130	5001 5000	15 C 30A	7.7	7350	79 0	0.0	0.20	0.10 0.3		0.01	0.17
5/04/71 1105	5001 5000	14 C 32A	7.5	14400	79 0	1.70	0.18 0.23	0.19 1.93		0.09	0.10
6/02/71 1105	500 <b>1</b> 5000	17 C 19A	7.8	7240	79 0	0.25	0.08	0.20 0.47		0.08	0.12
6/30/71 0925	5 <b>001</b> 5000	20 C 18A	7.5	10200	78 0		0.20			0.08	0.14

# TABLE D-4 (CONTINUED) NUTRIENT ANALYSIS OF SURFACE WATER

						SIS OF SURFA	CE WATER				
DATE TIME	SAMP LAB	G.H. TEMP Q TURB	LAROI PH	IELD RATORY EC	LA8 HC03 C03	NO2 NH3	NUTRIENT NO3 ORG N	DIS ORG N	NH3 + OPG N	IGRAMS PER LITER FIL. F P04 A.H.P04 U P04	F 101 P U 101 P
	EO A	802.3 207.1				POINT AT MA			TINUEO		
8/03/71 1345	5001 5001	21 C 16A	8.0	17800	80 0	0.05	0.16	0.01		0.09	0.18
8/31/71 1245	5001 5001	21 C 20A	7.9	11900	69	0.05	0.15				0.19
9/28/71	5001	18 C	7.7		90		0.15			0.09	
1050	5001 E0 B	802.8 155.0	SACRAMENTO	11300 RIVER	0 AT CHIPP	0.06 S 15LAND				0.06	0.06
10/07/70 1200	5001 5000	17 C 55A	7.6	1550		0.00	0.09 0.41	0.09	0.41	0.09	0.27
11/20/70 1130	5001 5000	14 C 28A	7.2	361		0.02	0.29 0.71	0.48	0.73	0.08	0.14
3/04/71 1000	5001 5000	10 C 39A	6.8	663	0 <sup>79</sup>	0.18	0.30 0.42	0.3A	0.6	0.06	0.12
4/06/71 1245	5001 5000	15 C 70A	7.5	140	64 0	0.0	0.10 0.25	0.05	0.25	0.02	0.18
5/04/71 1305	5001 5000	15 C 27A	7.5	179	62 0	0.10	0.0 0.18	0.18	0.28	0.06	0.12
6/02/71 1235	5001 5000	18 C 15A	7.6	172	70 0	0.0	0.05 0.22	0.24	0.22	0.04	0.09
6/30/71 1105		21 C 22A	7.5	251	60	0.0	0.03	0.04		0.04	0.09
8/03/71 1520		22 C 37A	8.0	2550	64	0.01	0.01	0.0		0.04	0.15
8/31/71 1430		21 C 274	8.0	553	67	0.01	0.06			0.04	0.15
9/28/71	5001	18 C	7.7		56		0.07				
1230	5001 E0 B	26A 803.5,217.0	SAN PAHLO	BAY NEA	7 AR RODEO	0.0				0.03	0.08
3/24/71 1200		14 C 30A	7.6	28000		1.40	0.3 0.22		1.62	0.10	0.08
4/21/71 1120		13 C 55A	7.7	20700	95 0	0.05	0.2				
5/19/71	5001	16 C	7.8		95		0.28		0.33	0.10	0.21
1200 6/16/71	5000 5001	51 C	7.7	20900	0 99	3,40	0.2	0.17	3.74	0.07	0.10
1005 7/15/71	5000 5001	13A 18 C	7.7	19500	0 107	0.27	0.25	0.18	0.52	0.05	0.12
1025 8/17/71	5001 5001	14A 21 C	8.2	27900	0 102	0.09	0.2			0.11	0.18
1500 9/15/71	5001	22A C	7.6	27200	98	0.08	0.2			0.11	0.17
1340	5001	10A		26700	0	0.06	0.2			0.09	0.16
3/04/71		но4.4 156.2 10 с	HONKER HAY	NEAR W	HEELER P	OINT	0.30				
0935 4/06/71	5000 5001	45A 15 C	7.5	609	0 63	0.13	0.24	0.14	0.37	0.02	0.17
1215 5/04/71	5000	70A 15 C	7.5	140	64	0.03	0.20	0.12	0.23	0.01	0.17
1240	5000	37A		174	0	0.02	0.27	0.21	0.29	0.04	0.10
6/02/71 1210	5000	18 C 24A	7.8	175	70 0	0.0	0.08 0.29	0+41	0.29	0.04	0.10
6/30/71 1035	5001 5000	21 C 34A	7.5	332	60 0	0.01	0.03	0.01		0.04	0.11
8/03/71 1455	5001 5001	22 C 55A	7.9	3160	64 0	0.01	0.02	0.01		0.03	0.16
8/31/71 1400	5001 5001	21 C 37A	8.0	655	67 0	0.01	0.06			0.04	0.16
9/28/71 1200	5001 5001	18 C 33A	7.7	198	92	0.0	0.07			0.04	0.04
	EO R	805.3 226.3	SAN PABLO	BAY NEA	AR MOUTH (	OF PETALUMA	RIVER				
3/24/71 1100	5001 5000	13 C 22A	7.4	28000		2.90	0.4 0.20		3.1	0.19	0.34
4/21/71 1015	5001 5000	12 C 40A	7.6	24600	101 0	2.30	0.2 0.28		2.58	0.15	0.21
5/19/71 1050	5001 5000	17 C 16A	7.9	23100	141 0	2.20	0.1 0.21	0.18	2.41	0.09	0.10
6/16/71 0840	5001 5000	19 C 8A	7.5	24000	106 0	2.10	0.2 0.38	0.17	2.48	0.06	0.12
7/15/71 0915	5001 5001	19 C 10A	8.1	26700	106	0.05	0.1			0.18	0.22
8/17/71 1335		20 C 70A	8.1	30300	111	0.05	0.5			0.21	0.35

# TABLE D-4 (CONTINUED) NUTRIENT ANALYSIS OF SURFACE WATER

DATE TIME	LAB	G.H. TFMP G TURB	LABO PH	IELD RATORY EC	LA8 HC03 C03	S0N SHN	NUTRIENT NO3 ORG N	DIS ORG N	NH3 ◆ ORG N	LIGRAMS PER FIL. A.H.PO4	LITER F PO4 U PO4	F TOT P U TOT P
		805.3 226.3	SAN PASLO	BAY NE	AR MOUTH	OF PETALUMA	RIVER	CON	INUED			
9/15/71 1240	5001 5001	25 C 14A	7.9	26800	141	0.03	0.1				0.11	0.21
	E 0 B	A07.0 202.3	GRIZZLY 8	AY AT DO	LPHIN NE	AR SUISUN S	_OUGH					
10/07/70	5001 5000	16 C 140A	7.6	5470		0.00	0.05 0.63	0.24	0.63		0.08	0.36
11/20/70	5001 5000	14 C 70A	7.4	3090		0.03	0.18 0.89	0.48	0.92		0.08	0.19
3/04/71 0755	5001 5000	9 C 70A	6.8	2740	82 0	0.32	0.30 0.18	0.15	0.5		0.07	0.15
4/06/71	5001 5000	15 C	7.5	145	62	0.02	0.0	0.08	0.27			
1030	5001	14 C	7.3	758	63		0.04				0.02	0.18
1015	5001	75A 17 C	7.9		63	0.0	0.31	0.18	0.31		0.05	0.20
1020	5000 5001	40A 20 C	7.7	372	0 64	0.0	0.24	0.27	0.24		0.05	0.16
0835 8/03/71	5090	60A		1550	0	0.01					0.01	0.11
1300	5001 5001	21 C 60A	7.8	7560	0 64	0.01	0.03	0.03			0.04	0.17
8/31/71 1200	5001 5001	21 C 47A	8.0	2510	81 0	0.01	0.06				0.05	0.20
9/28/71 0950	5001 5001	18 C 34A	7.5	338	72 0	0.0	0.08				0.04	0.10
	E0 5	809.2 205.3	COROEL1A	SLOUGH A	T CYGNUS							
0920 0920	5001 5000	14 C 90A	7.1	5100	0	0.43	0.20 0.73		1.16		0.04	0.06
5/17/71 1115	5001 5000	18 C 100A	7.4	1450	100	0.09	0.17 0.50		0.59		0.02	0.38
8/27/71 0900	5001 5001	21 C 50 A	7.7	4240	84	0.05	0.10				0.03	0.16
	E0 5	8.505 8.018	SUISUN SLO	DUGH AT	VOLANTI	SLOUGH ON JO	ICE ISLAND					
11/06/70 1215	5001 5000	15 C 75A	7.3	3670	141 0	0.28	0.50 0.92		1.2		0.10	0.14
5/17/71 1405	500 <b>1</b> 5000	19 C 75A	7.9	1860	127 0	0.04	0.83 0.49		0.53		0.12	0.40
8/27/71 1240	5001 5001	23 C 50A	7.9	4390	102	0.07	0.10				0.04	0.21
	F0 5	811.0 204.8	CHADBOURNE	SLOUGH	AT CHAD	BOURNE ROAD	NEAR SUISU	4	~			
11/06/70 1040	5001 5000	15 C 70A	7.2	4180	129 0	0.43	0.30		1.35		0.08	0.11
5/17/71 1250	5001 5000	19 C	7.7	1400	165 0	0.08	0.61 0.77		0.85		0.03	0.32
8/27/71 1115	5001 5001	21 C	7.7	4040	113	0.12	0.21				0.02	0.16
1117			MONTEZUMA			LY ISLAND RO	AO				0.02	0.10
11/06/70 1300		15 C 65A	7.1	5920	103	0.32	0.20 1.20		1.52		0.02	0.06
5/17/71 1450		19 C 654	7.8	683	73 0	0.07	0.08 0.36		0.43		0.02	0.20
8/27/71	5001	23 C	7.9		80		0.10		0.43			
1330		40A 311.5 207.2	CORUELIA S	3610 LOUGH A	O T UPPER E	0.03 END NEAR COR	DELIA				0.03	0.15
5/17/71 1205	5001 5000	19 C 75A	7.7	1190	200	0.14	0.33 0.42		0.56		0.04	0.29
8/27/7]	5001	50 C	8.0		176		0.15		0.30			
1015		80A 313.5 201.2	HILL SLOUG	606 ih at gr	0 12 <b>2</b> LY <b>1</b> 5l	0.03 AND ROAD					0.07	0.20
11/06/70 1330	5001 5000	15 C 45A	7.6	530	172 0	0.0	0.10 0.50		0.5		0.27	0.27
8/27/71 1400		21 C 45A	8.0	3430	168	0.08	0.40				0.25	0.48
1400	_		NAPA RIVER								0.25	0.46
4/13/71 1130	5050 5050	60 F	8.2	4500		0.00	0.38		0.0	0.00	0.11	0.23
		100.51	GREFN VALL	EY CREE	K A1 COR							
11/06/70 1005		14 C 50A	7.7	296	133 0	0.0	0.30 0.76		0.76		0.05	0.07
	•				-						- 100	,

#### TABLE D-5

#### PESTICIDES IN SURFACE WATER AND SEDIMENT

#### **Pesticides**

BHC - Benzene hexachloride

DDE - Dichloro diphenyl ethane

DDT - Dichloro diphenyl trichlorethane

PCB - Polychlorinated biphenol

When two pesticides are reported together with a slash mark separating them (ppDDE/Dieldrin, Simazine/Atrazine, etc.), the reported concentration is an undifferentiated total of the two. Either of the two pesticides could make up the entire total.

#### Lab and Sampler Agency Codes

5001 - U. S. Bureau of Reclamation

5007 - U. S. Environmental Protection Agency Laboratory at Alameda

5050 - Department of Water Resources

# PESTICIDES IN SURFACE WATER AND SEDIMENT

Station Number	Station	Date Time	Pesticides in Wate (nanograms per lite		Pesticides in Sediment (micrograms per liter of dry weight)	Samp	Lob
D1 1006.30	WATSONVILLE SLOUGH AT SAN ANDRES ROAD	05-05-71 1000	Malathion Simazine/Atrazine PCB Unknown as Parathion	290 100 560 15		5050	5050
D1 1075.30	PAJARO RIVER AT THURWACHTER ROAD	05-05-71 1030	Simazine/Atrazine Unknown #1 as DDT Unknown #2 as DDT Diazinon	95 5 5 25		5050	5050
D1 1250.00	PAJARO RIVER AT CHITTENDEN	02-17-71 1100	Unknown as DDT No organic phosphorus pesticide detected	5		5050	5050
		05-05-71 1130	Simazine/Atrazine Unknown as DDT No organic phosphorus pesticide detected	60 35		5050	5050
D1 1371.50	UVAS CREEK NEAR MORGAN HILL BELOW UVAS DAM	05-05-71 1400	No chlorinated pesticide detected No organic phosphorus pesticide detected	5		5050	5050
D1 1475.50	PLANEL AGRICULTURAL DRAIN ABOVE LLAGAS CREEK	05-05-71 1245	Simazine/Atrazine Complex chlorinated compounds as DDT No organic phosphorus pesticide detected	45 50		5050	5050
D1 2450.00	SAN BENITO RIVER NEAR WILLOW CREEK SCHOOL	05-05-71 0900	Unknown as DDT No organic phosphorus pesticide detected	2 s		5050	5050
D1 3220.20	ELKHORN SLOUGH AT BRIDGE NEAR HALL	05-05-71 0915	Simazine/Atrazine Complex chlorinated compounds as DDT No organic phosphorus pesticide detected	115 55		5050	5050
D2 1006.30	TEMBLADERO SLOUGH AT NASHUA ROAD	05-05-71 1450	Unknown #1 as DDT Unknown #2 as DDT Complex chlorinated compounds as DDT Thimet Diazinon Parathion	740 240 4600 880 350 900		5050	5050
D2 1006.60	TEMBLADERO SLOUGH AT MERRITT LAKE DRAIN	05-05-71 1300	Simazine/Atrazine Diazinon Methyl Parathion Parathion	450 20 85 25	,	5050	5050
D2 1009.20	SALINAS RECLAMATION CANAL BELOW ALISAL SLOUGH	02-17-71 1015	Simazine/Atrazine Unknown #1 as DDT Unknown #2 as DDT Diazinon Methyl Parathion	1180 620 290 250 160		5050	5050
		05-05-71 1230	Unknown #1 as DDT Unknown #2 as DDT Complex chlorinated compound as DDT Thimet Diazinon Methyl Parathion Parathion	880 340 6900 660 210 130 860		5050	5050
D2 1020.70	SALINAS RECLAMATION CANAL AT AIRPORT WAY	05-05-71 1030	Unknown #1 as DDT Unknown #2 as DDT Unknown #3 as DDT Unknown #4 as DDT Unknown #5 as DDT Unknown #6 as DDT DDT Thimet Diazinon Methyl Parathion Parathion	610 5300 2200 2000 3100 2600 3100 710 700 1300 3600		5050	5050
D2 1030.30	BLANCO DRAIN AT PUMP LIFT	02-17-71 1005	Simazine/Atrazine Unknown #1 as DDT Unknown #2 as DDT Unknown #3 as DDT Complex chlorinated compounds as DDT Methyl parathion Parathion	190 30 95 60 425 120 600		5050	5050
		05-05-71 1200	Unknown #1 as DDT Unknown #2 as DDT Unknown #3 as DDT Parathion	2100 1200 200 2810		5050	5050

## PESTICIDES IN SURFACE WATER AND SEDIMENT

Station Number	Station	Date Time	Pesticides in Water (nanagrams per liter)		Pesticides in Sediment (micrograms per liter of dry weight)	Samp	Lab
D2 1110.50	SALINAS RIVER AT TWIN BRIDGES	05-05-71 0800	Unknown #1 as DDT Unknown #2 as DDT Unknown #3 as DDT Phorate (Thimet) Parathion	30 145 30 45 75		5050	5050
D2 1325.10	SALINAS RIVER NEAR GONZALES	02-17-71 0840	Unknown as DDT No organic phosphorus pesticides detected	5		5050	5050
		05-05-71 1230	Unknown #1 as DDT Unknown #2 as DDT No organic phosphorus pesticides detected	3		5050	5050
D2 1450.00	ARROYO SECO NEAR SOLEDAD	05-05-71 1140	No chlorinated pesticides detected No organic phosphorus pesticides detected			5050	50 50
D2 1850.00	SALINAS RIVER AT BRADLEY	05-05-71 1000	No chlorinated pesticides detected No organic phosphorus pesticides detected			5050	5050
D4 1010.50	CARMEL RIVER AT HIGHWAY 1	05-05-71 1430	No chlorinated pesticides detected No organic phosphorus pesticides detected			5050	5050
EO B 735.0 215.0	SAN FRANCISCO BAY AT SAN MATEO BRIDGE (SHIP CHANNEL)	03-16-71 1020	Unknown as DDT	55		5050	5050
	•	07-08-71 0820	Unknown as DDT	5		5050	5050
		09-21-71 0915	Unknown as DDT Complex chlorinated compounds as DDT	9		5050	5050
EO B 736.2 211.6	SAN FRANCISCO BAY AT SAN MATEO BRIDGE	11-17-70 0950	Complex chlorinated compounds as DDT	20		5050	5050
		01-28-71 075C	No chlorinated pesticides detected			5050	5050
		05-11-71 0810	Simazine/Atrazine Unknown as DDT	18 10		5050	5050
EO B 736.2 212.0	SAN FRANCISCO BAY AT SAN MATEO BRIDGE (PIER 662)	07-08-71 0915	Unknown as DDT	5		5050	5050
		09-21-71 1050	Unknown as DDT Complex chlorinated compounds as DDT	15 10		5050	5050
EO B 748.1 222.4	SAN FRANCISCO BAY WEST OF YERBA BUENA ISLAND	11-17-70 1100	No chlorinated pesticides detected			5050	5050
		01-28-71 0730	No chlorinated pesticides detected			5050	5050
		03-16-71 1005	Unknown as DDT	2		5050	5050
		05-11-71 0812	No chlorinated pesticides detected			5050	5050
EO B 749.2 222.4	SAN FRANCISCO BAY AT TREASURE ISLAND	07-08-71 0640	Unknown as DDT	5		5050	5050
		09-21-71 0715	Unknown as DDT Complex chlorinated compounds as DDT	15 15		5050	5050
EO B 757.7 226.2	SAN PABLO STRAIT WEST OF THE BROTHERS	11-17-70 1145	No chlorinated pesticides detected			5050	5050
			Unknown as DDT	5		5050	5050
			Unknown as DDT	3		5050	5050
			No chlorinated pesticides detected			5050	5050
EO B 802.3 207.1	SUISUN BAY OFF BULLS HEAD POINT AT MARTINEZ	10-07-70 1045		<3 3 <3 <10 <3 <100 <3 <3		5001	5007

### PESTICIDES IN SURFACE WATER AND SEDIMENT

Station Number	Station	Date Time	Pesticides in Wate (nanograms per lite		Pesticides in Sediment (micrograms per liter of dry weight)	Samp	Lab
ЕО В 802.3 207.1	SUISUN BAY OFF BULLS HEAD POINT AT MARTINEZ (Continued)	11-20-70 1035	Aldrin BHC DDE DDT	<3 <3 <3 <10		5001	5007
			Dieldrin Toxaphene Heptachlor Heptachlor Epoxide	<3 <100 <3 <3			
		05-04-71 1105	Aldrin BHC DDE DDT Dieldrin Toxaphene Heptachlor Heptachlor Epoxide	3 3 3 <10 3 <100 3 <100		5001	5007
		06-02-71 1105	Aldrin BHC DDE DDT Dieldrin Toxaphene Heptachlor Heptachlor Epoxide	3 3 3 <10 3 <100 3 <100		5001	5007
		07-15-71 1115	Aldrin BHC DDE DDT Dieldrin Toxaphene Heptachlor Heptachlor Epoxide	3 3 3 <10 3 <100 3 <3		5001	5007
		08-31-71 1245	Aldrin BHC DDE DDT Dieldrin Toxaphene Heptachlor Heptachlor Epoxide	3 3 3 <10 3 <100 3		5001	5007
EO B 804.4 156.2	HONKER BAY NEAR WHEELER POINT	06-02-71 1210	Aldrín BHC DDE DDT Dieldrin Toxaphene Heptachlor Heptachlor Epoxide	\(\begin{array}{cccccccccccccccccccccccccccccccccccc	•	5001	5007

### DAILY MAXIMUM AND MINIMUM AVERAGE WATER TEMPERATURES

D2 1006.60 TEMBLADERO SLOUGH AT MERRITT LAKE DRAIN (October 1970 through September 1971)

(In Degrees Fahrenheit)

	Oc.	tober	Naver	nber	Dece	mber	Janu	ary	Febr	uary	Ма	ırch	Ap	ril	М	оу	Ju	ne	Jυ	ly	Aug	ust	Septe	mber
Day	Max	Min	Mox	Min	Мах	Min	Max	Min	Max	Min	Мах	Min	Max	Min	Max	Min	Max	Min	Мах	Min	Max	Min	Max	Min
1 2 3 4 5	NR NR NR NR	NR NR NR NR	61 60 60 61 62	54 59 58 59 61	58 57 55 56 59	56 55 53 54 55	66 65 62 60 NR	64 62 60 58 NR	68 70 68 67 68	67 67 64 63 64	72 63 71 76 74	59 57 59 59	88 90 87 88 86	67 68 68 73 71	91 84 82 81 80	70 70 72 71 73	76 82 79 80 85	68 68 69 71 72	NR NR NR NR	NR NR NR NR	86 84 86 92 87	74 74 74 74 75		
6 7 8 9 10	NR NR 63 67 68	NR NR 59 55	63 65 66 66 66	62 62 62 61 63	59 60 60 59 56	57 58 59 56 54	NR NR NR NR NR	NR NR NR NR	69 70 70 71 72	65 67 68 66 67	74 74 69 71 75	59 59 62 62 60	74 85 87 87 82	71 67 65 67 72	80 82 87 94 82	67 69 73 70 71	80 78 87 80 80	72 71 69 69 72	NR NR NR NR NR	NR NR NR NR	82 76 81 87 RE	75 74 76 79 RE		
11 12 13 14 15	66 62 63 63 64	62 60 59 60	65 64 62 56 55	62 61 53 54 52	55 54 NR NR NR	53 52 NR NR NR	NR 65 65 66 67	NR 63 62 64 64	75 77 75 73 77	68 70 68 68 68	78 76 75 70 80	67 65 65 65	85 97 80 85 78	66 67 70 70 74	78 82 87 90 82	74 71 74 71 73	87 80 83 92 96	70 70 70 73 72	NR NR 89 82 76	NR NR 82 72 74				
16 17 18 19 20	70 67 64 66 61	59 58 57 60 56	55 54 57 54 54	53 49 52 52 49	NR NR NR NR NR	NR NR NR NR	68 70 74 74 74	64 67 69 72 71	68 67 72 72 72 70	63 64 61 66 63	84 90 90 92 85	68 65 65 65	83 76 77 74 78	71 70 68 70 70	85 91 91 84 80	70 70 71 71 70	95 89 90 92 93	72 69 71 75 77	83 89 92 86 97	75 79 78 77 80				
21 22 23 24 25	63 60 NR NR NR	57 58 NR NR NR	58 57 54 54 60	52 53 52 50 52	NR NR NR NR 64	NR NR NR NR 64	72 68 67 67 68	69 66 64 65 65	72 72 75 73 72	62 63 60 64 61	84 89 78 87 76	68 68 71 72 72	81 87 87 77 86	65 65 71 63 65	86 78 83 81 91	70 70 72 73 71	95 86 89 89 94	79 75 72 71 71	86 81 82 77 78	74 73 74 72 71				
26 27 28 29 30 31	NR NR NR 60 55	NR NR NR 56 54	59 55 57 57 57	55 52 54 55 56	65 65 66 <b>6</b> 7 67	63 64 64 64 64	68 69 70 70 69 70	64 65 66 66 66	67 69 72	57 58 59	83 79 80 84 85 90	72 72 72 72 72 65 66	83 87 78 92 85	70 68 72 67 66	89 75 83 80 77 83	75 70 70 70 71 68	89 95 90 88 74	76 75 72 70 71	80 85 80 82 89 91	72 72 72 72 72 70 73				
Max Min Avg	1	NR NR NR	6 4 5	9	N N N		N N N	R	7 5 6	7	5	)2 )7 '1	9 6 7	3	9 6 7		9 6 7		N N N	R				

NR - No record. RE - Record ended.

D2 1325.10 SALINAS RIVER NEAR GONZALES (October 1970 through September 1971)

	Octo	ber	Nove	mber	Dece	mber	Janu	ary	Feb	uary	Ма	ch	Ap	ril	М	ау	Ju	ne	Ju	ly	Aug	ust	Sept	ember
Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min								
1	NR	NR	NR	NR	53	49	48	45	NR	NR					NR	NR	62	53	NR	NR	NR	NR	NR	NR
2	69	57	NR	NR	52	49	NR	NR NR	54 53	50 45	-				NR NR	NR NR	70 66	55 53	NR NR	NR NR	NR 77	NR 55	NR NR	NR NR
3 4	68 69	57 57	NR 58	NR 56	49 52	44 45	NR NR	NR NR	52	44	1				NR	NR	70	54	NR	NR	79	53	NR	NR
5	66	57	65	56	56	51	NR	NR	53	45					NR	NR	63	57	NR	NR	77	57	NR	NR
6	66	56	58	55	57	50	NR	NR	56	49					NR	NR	67	58	NR	NR	79	56	NR	NR
7	65	51	60	56	57 54	52 49	NR NR	NR NR	56 55	51 51					NR NR	NR NR	68 73	56 55	NR NR	NR NR	80 82	59 59	NR NR	NR NR
8 9	65 65	50 50	61 60	57 56	54	46	NR NR	NR	56	47					NR	NR	65	54	NR	NR	81	60	NR	NR
10	66	53	60	58	52	42	NR	NR	58	48	N			N	NR	NR	74	58	NR	NR	80	65	NR	NR
11	67	56	NR	NR	52	42	NR	NR	62	50	0			0	71	58	72	57	NR	NR	79 78	62 62	NR NR	NR NR
12 13	63 62	57 56	NR NR	NR NR	51 47	41 39	NR NR	NR NR	62 61	52 52					73 70	53 53	72 70	56 56	NR 79	NR 64	78	61	NR	NR
14	60	55	NR	NR	50	42	NR	NR	58	52					75	50	75	58	77	59	77	59	82	70
15	63	55	NR	NR	51	41	NR	NR	60	47	R			R	73	50	79	59	77	57	77	59	80	62
16	63	54	NR	NR	54	46	NR	NR	50 54	45	E			E	75 72	49 49	77 80	60 59	77 79	58 59	78 77	58 59	76 75	63 60
17 18	61 57	53 51	NR NR	NR NR	53 44	43 40	NR NR	NR NR	59	44 48	c			С	71	50	79	57	81	61	75	58	75	60
19	61	52	NR	NR	52	43	NR	NR	56	39					73	53	77	60	80	61	76	60	75	56
20	59	47	NR	NR	45	41	NR	NR	56	42	0			0	70	53	79	59	79	56	77	59	72	59
21	57	52	NR	NR	46	42	NR	NR	57	44	R			R	68	49	79	59	NR	NR	79	60	72	59
22 23	61	53	NR	NR	47	43 43	NR NR	NR NR	54 60	43 42	D			D	74 72	52 55	72 72	61 59	NR NR	NR NR	79 78	62 59	72 69	57 59
24	63 60	57 54	NR NR	NR NR	47 46	40	NR NR	NR	59	43	"			D	72	57	69	62	NR	NR	NR	NR	68	56
25	64	51	NR	NR	46	40	NR	NR	54	36					69	54	70	60	NR	NR	NR	NR	69	57
26	58	49	NR	NR	46	44	NR	NR	53	37					67	56	72	63	NR	NR	NR	NR	67	54
27 28	NR	NR	NR NR	NR	47 47	44 43	NR NR	NR NR	50 NR	40 NR					58 71	52 54	72 67	63 58	NR NR	NR NR	NR NR	NR NR	67 66	52 52
29	NR NR	NR NR	53	NR 50	46	43	NR NR	NR	INK.	1/1/					61	56	69	59	NR	NR	NR	NR	6.5	52
30	NR	NR	52	47	48	43	NR	NR			1				. 66 NR	57 NR	NR	NR	NR NR	NR NR	NR NR	NR NR	66	55
31	NR	NR			49	45	NR	NR																
Max	N			IR.		57	N		N		N N		N			IR IR	N N		N N		N N			NR NR
Min Avg	N N	R		IR IR		39 •7	N N		N N		N N		N N	R R		iR	N N		N N		N			vR

DO 1030.30 BLANCO DRAIN AT PUMP LIFT (October 1970 through September 1971)

(In Micromhos at 25 a C)

Day		October			November			December			January			February			March	
Day	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	3,220	2,200	2,645	2,850	1,100	1,975	2,980	2,700	2,840	3,660	3,500	3,590	4,100	3,350	3,610	3,200	2,100	2,540
2	3,700	2,330	2,878	3,790	1,600	2,695	3,000	1,840	2,425	3,650	2,920	3,220	4,100	3,410	4,150	3,200	1,120	2,310
3	3,500	2,100	2,645	3,510	2,430	3,020	3,230	2,500	2,865	3,490	3,020	3,290	4,100	2,480	3,580	2,900	1,670	2,080
4	3,500	2,500	3,000	3,320	2,550	2,905	3,360	2,840	3,100	3,670	3,500	3,580	4,000	2,450	2,980	3,300	1,400	2,150
5	3,510	3,200	3,355	3,600	3,020	3,205	3,520	3,150	3,335	3,790	3,620	3,670	2,800	1,950	2,370	3,100	1,450	2,090
6	3,910	3,500	3,705	3,690	2,810	3,250	3,700	3,550	3,625	3,830	3,100	3,600	2, 00	1,950	2,300	3,000	1,600	2,120
7	3,800	2,890	3,345	3,620	2,910	3,265	3,800	3,700	3,750	3,910	3,050	3,690	4,110	2,790	3,810	2,300	1,800	1,980
8	3,490	2,800	3,145	3,310	2,760	3,100	3,820	3,750	3,790	3,910	3,410	3,780	4,310	3,920	4,130	2,180	1,640	1,880
9	3,490	2,350	2,920	3,670	3,210	3,340	3,900	3,750	3,825	4,000	3,150	3,640	4,200	3,900	4,130	2,500	1,650	2,100
10	3,650	2,450	3,050	3,910	3,230	3,570	3,990	3,710	3,845	4,000	3,150	3,660	4,280	3,700	4,150	3,200	1,800	2,290
11	3,330	2,140	2,735	3,850	3,090	3,470	3,950	3,250	3,600	4,000	3,180	3,830	4,220	3,950	4,120	2,000	1,410	1,670
12	3,400	2,600	2,875	3,810	3,320	3,550	3,980	3,410	3,705	3,500	2,200	2,990	4,190	2,450	3,350	2,000	1,500	1,830
13	3,230	2,400	2,815	3,800	3,000	3,400	3,900	3,700	3,545	2,690	1,750	2,160	4,180	3,250	3,670	2,700	1,600	1,920
14	3,300	2,000	2,650	3,790	3,020	3,405	4,000	3,130	3,565	3,100	2,380	2,830	4,150	3,760	4,040	3,100	2,680	2,890
15	3,600	1,900	2,750	3,750	3,230	3,500	4,020	3,240	3,630	3,590	3,130	3,420	4,180	3,700	4,080	2,900	2,100	2,440
16	3,900	2,800	3,350	3,820	3,110	3,465	3,820	2,850	3,225	3,790	3,600	3,690	4,150	3,850	4,060	3,000	2,300	2,690
17	3,190	2,700	2,945	3,820	3,120	3,460	3,500	1,740	2,620	3,820	3,730	3,790	4,180	4,020	4,080	2,800	1,700	2,170
18	3,290	2,810	3,050	3,900	3,100	3,500	2,850	1,600	2,225	3,810	3,150	3,670	4,210	3,880	4,100	3,500	2,000	2,920
19	3.510	2,750	3,130	3,720	3,110	3,370	2,720	1,720	2,220	3,900	3,110	3,670	4,000	2,750	3,730	3,650	2,700	3,260
20	3,520	2,830	3,175	3,390	2,710	3,045	3,300	2,230	2,765	3,900	3,460	3,770	4,220	3,200	3,890	3,500	1,950	2,720
21	3,420	2,900	3,160	3,400	2,550	2,890	1,750	1,070	1,410	3,910	3,130	3,710	4,160	3,680	3,850	2,350	1,700	1,930
22	3,510	2,550	3,030	3,190	2,100	2,645	2,090	1,450	1,770	3,910	3,720	3,770	4,060	3,400	3,880	2,350	1,650	1,870
23	3,210	2,280	2,745	3,470	2,500	2,987	2,690	2,140	2,415	3,950	3,230	3,890	4,320	3,580	4,000	3,400	1,800	2,320
24	3,500	2,600	2,940	3,700	2,980	3,340	3,220	2,680	2,950	3,950	3,370	3,870	4,000	3,500	3,830	3,500	2,250	2,740
25	3,560	2,690	3,115	3,520	2,590	2,860	3,500	3,280	3,390	4,010	3,200	3,730	4,030	3,200	3,580	3,500	2,450	2,900
26 27 28 29 30 31	3,560 3,560 3,250 3,700 3,490 3,280	2,330 2,330 2,490 3,010 3,010 1,440	2,945 2,895 3,355 3,300 3,250 2,360	3,090 3,410 3,390 2,100 2,750	2,520 2,700 1,650 1,600 2,100	2,720 3,055 2,520 1,835 2,425	3,620 3,160 2,800 3,110 3,300 3,500	3,230 2,200 2,000 2,780 2,920 3,300	3,425 2,680 2,400 2,945 3,110 3,400	3,950 3,830 3,930 4,010 4,030 4,010	3,250 3,000 3,150 3,480 3,340 3,280	3,690 3,510 3,590 3,840 3,830 3,750	4,050 4,000 3,310	3,050 3,140 2,600	3,750 3,700 2,920	3,200 3,300 3,450 3,350 2,280 2,500	2,250 2,250 2,450 1,950 1,580 1,700	2,660 2,870 3,230 2,510 1,970 1,980

Day		April			May			June			July			August			September	
Duy	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1 2 3 4 5	1,950 2,600 2,650 2,880 3,100	1,600 1,760 2,400 2,000 1,800	1,770 2,380 2,500 2,500 2,440	2,400 2,400 3,000 2,700 2,400	1,700 1,800 2,100 1,900 1,600	2,020 2,040 2,510 2,240 1,920	2,900 3,300 2,700 3,000 3,300	2,300 2,700 2,200 2,200 2,100	2,654 2,912 2,387 2,483 2,890	2,200 2,450 2,850 2,900 3,100	1,850 1,800 2,250 2,000 2,100	1,950 2,120 2,540 2,370 2,620	NR NR NR NR	NR NR NR NR	NR NR NR NR	NR NR NR NR	NR NR NR NR NR	NR NR NR NR
6 7 8 9	3,320 2,900 2,100 2,300 1,900	2,600 2,200 1,600 1,750 1,500	2,840 2,510 1,930 1,960 1,650	2,700 2,300 2,700 2,400 2,800	1,800 1,800 2,000 1,800 2,100	2,310 2,120 2,330 2,190 2,280	2,900 2,700 3,100 3,500 3,050	2,100 1,800 1,610 2,250 2,050	2,300 2,160 2,468 3,047 2,606	3,150 2,800 3,400 2,800 2,800	2,200 2,000 2,300 2,300 2,450	2,580 2,330 2,770 2,460 2,630	NR NR NR NR	NR NR NR NR	NR NR NR NR	NR NR NR NR NR	NR NR NR NR	NR NR NR NR
11 12 13 14 15	2,600 2,180 2,650 2,900 3,100	2,150 1,720 1,800 1,500 2,500	2,400 1,910 2,360 2,280 2,810	2,400 3,300 2,900 3,000 3,100	2,200 1,700 1,800 1,750 2,200	2,440 2,560 2,154 2,180 2,800	2,600 2,300 2,200 2,550 3,700	2,130 1,900 1,600 1,600 2,400	2,398 2,017 1,903 2,174 3,010	3,000 2,900 2,600 2,500 3,100	1,900 1,950 2,100 1,950 2,300	2,380 2,280 2,310 2,270 2,670	NR NR NR NR	NR NR NR NR	NR NR NR NR	NR NR NR NR	NR NR NR NR	NR NR NR NR
16 17 18 19 20	3,500 3,500 3,900 4,100 3,500	2,300 2,200 3,500 2,200 1,650	2,870 3,450 3,800 3,080 2,600	3,500 3,200 3,200 3,660 3,300	1,900 2,400 2,200 2,500 2,100	2,510 2,750 2,790 3,230 2,550	2,650 2,500 2,100 2,650 3,250	1,950 1,800 1,650 1,500 1,600	2,330 2,180 1,896 1,944 2,654	2,500 2,700 1,800 2,150 2,600	2,200 1,700 1,500 1,800 1,900	2,300 2,220 1,540 2,080 2,220	NR NR NR NR	NR NR NR NR	NR NR NR NR	NR NR NR NR	NR NR NR NR	NR NR NR NR
21 22 23 24 25	2,600 2,350 3,000 2,510 2,250	1,500 1,500 2,000 1,850 1,700	2,020 1,820 2,340 2,180 1,930	2,400 2,500 2,500 3,100 3,200	1,800 1,900 1,900 2,100 2,400	2,120 2,180 2,090 2,370 2,880	3,700 2,700 3,500 3,000 3,000	2,100 2,150 2,200 1,850 1,900	2,580 2,380 2,660 2,300 2,400	2,500 2,500 2,250 2,450 3,000	1,800 1,950 1,950 1,950 2,000	2,040 2,240 2,050 2,170 2,680	NR NR NR NR	NR NR NR NR	NR NR NR NR	NR 3,250 3,250 3,100 3,150	NR 1,900 1,800 2,100 1,850	NR 2,397 2,375 2,725 2,377
26 27 28 29 30 31	2,750 2,200 1,800 2,100 2,400	1,600 1,500 1,400 1,800 1,550	1,910 1,630 1,580 1,900 1,820	2,600 2,800 3,000 3,300 3,400 3,000	1,900 1,600 1,700 2,400 2,800 2,300	2,210 2,220 2,112 2,750 3,125 2,800	2,200 2,400 2,680 2,300 2,700	1,700 1,850 1,700 1,800 1,650	1,860 2,040 2,250 2,200 1,970	No reco	1,900 2,100 ord pump ord pump ord pump	removed removed	NR NR NR NR NR	NR NR NR NR NR	NR NR NR NR NR	3,300 2,700 3,200 2,700 2,800	1,700 1,400 1,600 1,450 1,900	2,175 1,810 2,645 2,045 2,314

DO 1180.01 SAN LORENZO RIVER AT PARADISE PARK (October 1970 through September 1971)

(In Micramhos at 25 a C)

Day		October			November			Decembe	,		January			February			March	
Day	Мох	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Мах	Min	Avg	Max	Min	Avg
1 2 3 4 5	325 325 330 325 325	300 325 320 315 320	325 325 325 320 325	345 330 335 315 345	330 330 310 250 295	335 330 330 285 330	240 214 255 255 255	205 160 215 155 200	220 185 240 188 235	285 290 290 290 285	280 285 285 285 280	285 287 285 285 282	345 345 345 340 345	340 345 340 340 340	342 345 342 340 342	345 350 350 355 355	340 345 345 345 345	345 345 348 350 350
6 7 8 9	330 330 330 325 325	325 325 325 320 320	327 328 329 325 322	345 345 385 385 390	225 275 345 375 375	300 320 370 380 385	275 290 290 285 295	255 275 250 275 285	265 285 275 280 290	285 285 288 290 290	280 283 285 285 290	282 284 287 290 290	345 345 345 340 345	345 345 340 340 340	345 345 342 340 342	350 355 355 360 360	345 345 350 350 350	348 350 355 355 355
11 12 13 14 15	325 325 325 325 325 325	320 320 320 320 320	320 322 320 320 325	NR NR NR NR	NR NR NR NR	NR NR NR NR	305 305 315 318 320	295 305 310 312 310	300 305 312 315 315	295 NR NR NR NR	285 NR NR NR NR	280 NR NR NR NR	345 345 350 350 350	345 345 345 340 345	345 345 345 345 348	360 355 NR NR NR	350 230 NR NR NR	355 305 NR NR NR
16 17 18 19 20	325 325 325 325 325 325	320 315 315 320 305	323 320 320 322 315	NR NR NR NR 355	NR NR NR NR 315	NR NR NR NR 345	310 250 250 195 230	230 230 165 165 145	250 240 200 180 200	NR NR NR NR	NR NR NR NR	NR NR NR NR	350 345 345 340 340	340 340 340 315 335	345 343 345 335 338	320 NR NR NR 330	300 NR NR NR 330	310 NR NR NR 330
21 22 23 24 25	335 340 360 360 345	310 315 330 345 340	330 325 340 350 340	340 345 345 350 330	340 335 315 320 285	340 340 335 340 315	190 215 200 235 245	125 190 185 185 235	160 205 190 205 240	NR NR NR NR	NR NR NR NR	NR NR NR NR	340 345 350 350 355	335 335 345 345 350	335 340 347 350 350	335 340 340 345 345	330 335 335 340 320	333 335 338 340 335
26 27 28 29 30 31	340 335 335 335 330 335	330 330 330 325 325 325	338 335 333 332 329 330	340 345 320 225 250	230 305 195 190 230	305 335 220 205 240	260 265 275 275 270 280	230 240 260 240 250 270	240 257 270 257 260 275	335 340 340 340 340 340	335 335 335 335 340 340	335 337 340 340 340 340	350 350 350	350 335 345	350 342 345	325 290 320 325 325 325 325	250 255 290 315 320 320	280 275 310 320 320 325

Day		April			May			June			July			August			Septembe	r
Duy	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1 2 3 4 5	325 320 325 325 325 325	320 320 320 320 320 325	320 320 322 325 325	385 380 370 370 370	380 365 365 365 365	385 375 370 365 370	360 360 360 360 365	355 355 355 360 360	355 355 360 360 360	360 365 365 360 355	355 360 355 350 350	360 362 360 355 353	350 355 355 355 355 350	345 345 350 345 340	347 348 352 350 345	350 350 350 355 355	340 340 345 345 345	345 345 348 350 348
6	330	320	325	370	365	370	360	355	358	355	350	352	350	340	345	355	345	350
7	325	320	323	375	365	370	360	355	358	355	350	355	350	340	345	350	340	345
8	330	325	327	365	360	365	365	360	362	355	350	355	350	345	347	NR	NR	NR
9	330	325	328	360	345	355	365	360	362	355	350	355	350	345	347	NR	NR	NR
10	325	315	320	345	340	345	365	360	360	355	345	355	350	345	347	NR	NR	NR
11	325	315	320	360	345	355	370	360	365	355	345	350	355	340	350	NR	NR	NR
12	330	325	325	365	355	360	365	360	365	355	350	352	350	340	345	NR	NR	NR
13	330	285	325	NR	NR	NR	370	360	365	360	350	355	350	340	345	NR	NR	NR
14	295	225	280	NR	NR	NR	370	360	365	360	350	355	350	340	345	360	328	350
15	315	295	310	NR	NR	NR	365	360	365	355	350	355	350	340	345	360	352	355
16	315	310	313	NR	NR	NR	370	360	365	360	350	355	350	340	345	359	345	353
17	315	305	310	NR	NR	NR	370	360	365	360	350	357	350	340	345	358	348	353
18	315	305	310	NR	NR	NR	370	360	365	360	355	358	350	340	345	355	345	352
19	315	315	315	355	345	350	370	360	365	360	350	355	350	345	348	350	345	348
20	315	315	315	350	350	350	365	355	360	355	350	352	350	345	348	349	341	345
21	315	315	315	350	350	350	360	350	355	355	350	353	350	345	348	345	345	345
22	315	315	315	350	350	350	360	350	355	355	345	350	350	345	347	345	345	345
23	320	315	318	355	350	352	360	355	358	355	345	350	350	340	345	350	345	348
24	320	315	318	355	350	353	365	355	360	355	345	350	350	340	343	350	345	350
25	320	315	320	355	340	345	365	360	365	355	345	350	350	340	345	355	340	345
26 27 28 29 30 31	320 360 370 385 385	320 320 360 370 370	320 340 365 380 375	355 355 360 360 360 360	350 355 355 355 355 355 355	350 355 358 358 358 358 357	365 360 360 360 360	355 355 355 355 355 355	362 358 358 360 358	350 350 355 355 355 355	345 345 345 345 345 345	348 348 350 350 350 348	350 350 350 350 350 350 350	340 345 345 345 340 340	345 347 348 347 345 345	355 345 345 340 350	335 340 340 330 330	345 340 343 337 340

Dl 1250.00 PAJARO RIVER NEAR CHITTENDEN (October 1970 through September 1971)

(In Micromhos at 25° C)

		October			Navember			December			January			February			March	
Day	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1 2 3 4 5																		
5 7 8 9 10		N N O						N			N			К			N	1
11 12 13 14 15		0 0 R						O R			O R			O R			0 R	
16 17 18 19 20		E C O																
21 22 23 24 25		R D																
26 27 28 29 30 31																		

Day		April			May			June			July			August			September	
Day	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1 2										NR NR	NR NR	NR NR	2,220	2,060 1,280	2,127 1,927	1,590 1,610	1,570 1,590	1,578
3										NR	NR	NR	2,130	1,800	1,966	1,610	1,580	1,595
5										NR NR	NR NR	NR NR	1,850 1,700	1,500 1,580	1,712 1,632	1,600 1,590	1,580 1,580	1,585 1,589
6										NR	NR	NR	1,820	1,700	1,757	1,610	1,590	1,602
7										NR	NR	NR	1,850	1,750	1,812	1,610	1,600	1,607
8 9										NR NR	NR NR	NR NR	1,800 1,710	1,720	1,772	1,590 1,590	1,580 1,580	1,581
10		N			N			N		NR	NR	NR	1,610	1,540	1,572	1,580	1,550	1,561
11		0			0			0		NR	NR	NR	1,590	1,520	1,553	1,550	1,540	1,545
12										NR NR	NR NR	NR NR	1,520 1,520	1,500	1,508	1,590 1,530	1,520	1,530
14										NR	NR	NR	1,530	1,480	1,500	1,550	1,520	1,529
15		R			R			R		NR	NR	NR	1,480	1,450	1,466	1,590	1,540	1,555
16		E			E			E		NR	NR	NR NR	1,450	1,420	1,431	1,630	1,510	1,562
17		С			С			С		NR NR	NR NR	NR	1,450	1,420	1,427	1,660 1,660	1,640	1,643
19										NR	NR	NR	1,460	1,440	1,444	1,750	1,700	1,717
20		0			0			0		NR	NR	NR	1,450	1,440	1,443	1,770	1,740	1,757
21 22		R			R			R		NR	NR	NR	1,450	1,440	1,445	1,750	1,720	1,742
23		D			D			D		1,575 1,530	1,460 1,450	1,511	1,490 1,570	1,450	1,462 1,525	1,760 1,830	1,730	1,807
24		ъ			D			D		1,650	1,540	1,590	1,620	1,580	1,592	1,850	1,840	1,841
25										1,680	1,600	1,643	1,590	1,560	1,576	1,880	1,850	1,869
26										1,620	1,600	1,606	1,650	1,580	1,605	1,880	1,880	1,880
27										1,650 1,630	1,610	1,633	1,670 1,660	1,650 1,640	1,660	1,920 1,870	1,880	1,892
29										1,650	1,620	1,631	1,640	1,620	1,627	1,800	1,760	1,786
30				-						1,710	1,650	1,683	1,620	1,600	1,610	1,730	1,720	1,727
31										2,030	1,710	1,771	1,610	1,600	1,602			

D2 1006.60 TEMBLADERO SLOUGH AT MERRITT LAKE DRAIN (October 1970 through September 1971)

(In Micromhas at 25 ° C)

Day		October			Navember			December			January			February			March	
Luy	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1 2 3 4 5	NR NR NR NR	NR NR NR NR	NR NR NR NR	2,290 2,230 2,300 2,170 2,070	1,895 1,710 1,800 1,700 1,850	2,079 2,023 2,043 1,937 1,965	1,776 1,856 1,460 1,860 2,120	1,591 1,500 1,195 1,260 1,800	1,696 1,722 1,271 1,669 1,940	1,840 2,150 1,885 1,805 NR	1,650 1,575 1,560 1,675 NR	1,731 1,798 1,709 1,727 NR	2,300 2,450 2,450 2,280 2,210	2,200 2,210 2,220 2,100 2,100	2,247 2,298 2,343 2,174 2,141	2,360 2,500 2,850 2,700 2,710	2,065 2,040 1,500 2,310 2,390	2,194 2,225 2,292 2,452 2,511
6 7 8 9 10	NR NR 2,750 3,200 2,330	NR NR 2,340 1,820 1,760	NR NR 2,450 2,916 2,011	2,170 2,290 1,390 1,150 1,250	2,080 1,420 1,150 1,105 1,120	2,121 1,984 1,267 1,116 1,160	2,320 2,480 2,500 2,330 2,360	1,960 2,050 2,090 2,110 2,200	2,098 2,152 2,258 2,214 2,296	NR NR NR NR	NR NR NR NR	NR NR NR NR NR	2,250 2,350 2,400 2,305 2,530	2,095 2,110 2,200 2,190 2,415	2,157 2,238 2,278 2,237 2,466	2,620 2,700 2,810 2,700 2,600	2,100 2,120 2,200 2,150 1,995	2,317 2,387 2,465 2,357 2,317
11 12 13 14 15	2,800 2,920 3,260 3,430 3,420	2,390 2,800 2,890 3,210 3,350	2,634 2,860 3,075 3,296 3,385	1,448 1,598 1,748 1,673 1,773	1,273 1,373 1,393 1,373 1,423	1,363 1,481 1,581 1,518 1,585	2,450 2,330 NR NR NR	2,200 2,180 NR NR NR	2,277 2,282 NR NR NR	NR 1,515 920 1,275 1,655	NR 725 720 860 1,060	NR 935 811 1,018 1,416	2,505 2,600 2,790 2,730 2,715	2,440 2,350 2,505 2,315 1,655	2,469 2,472 2,613 2,529 2,362	2,450 2,300 1,800 1,005 1,025	1,900 1,655 1,007 831 870	2,150 2,024 1,398 1,039 1,013
16 17 18 19 20	3,510 3,570 3,650 3,750 3,900	3,190 3,480 3,500 3,520 3,710	3,396 3,516 3,575 3,619 3,780	1,843 2,023 2,046 2,000 2,070	1,493 1,523 1,746 1,746 1,696	1,649 1,737 1,896 1,866 1,856	NR NR NR NR NR	NR NR NR NR	NR NR NR NR	1,700 1,840 2,175 1,740 2,060	1,645 1,680 1,485 1,460 1,700	1,672 1,788 1,736 1,621 1,867	2,560 3,200 3,350 2,864 2,440	2,260 2,505 2,780 2,310 2,000	2,423 2,800 3,002 2,636 2,131	1,720 1,850 2,100 2,160 2,200	1,300 1,500 1,600 1,700 1,850	1,545 1,661 1,809 1,892 2,048
21 22 23 24 25	3,800 3,640 NR NR NR	3,620 3,210 NR NR NR	3,710 3,488 NR NR NR	2,113 1,603 1,890 1,975 1,960	1,275 1,350 1,530 1,250 1,400	1,763 1,481 1,709 1,484 1,656	NR NR NR NR 2,050	NR NR NR NR 1,910	NR NR NR NR 2,015	2,080 1,990 1,945 1,930 1,880	1,640 1,710 1,775 1,665 1,680	1,801 1,850 1,860 1,748 1,780	2,170 2,980 2,805 2,240 2,230	1,914 1,890 1,870 2,025 2,120	2,034 2,339 2,366 2,121 2,166	2,400 2,300 2,500 2,430 2,600	1,900 1,850 1,900 2,000 1,850	2,065 2,076 2,172 2,175 2,158
26 27 28 29 30 31	NR NR NR 1,850 2,310 2,330	NR NR NR 1,700 1,875 1,890	NR NR NR 1,775 2,092 2,000	1,526 1,296 1,626 1,696 1,591	1,176 1,146 1,166 1,456 1,466	1,356 1,166 1,424 1,607 1,505	2,850 2,150 1,380 1,745 1,760 2,240	1,945 960 1,150 1,410 1,730 1,580	2,117 1,486 1,265 1,595 1,742 1,782	1,950 1,900 1,740 1,860 1,940 2,240	1,650 1,640 1,550 1,695 1,740 1,975	1,820 1,721 1,645 1,740 1,804 2,107	2,310 2,322 2,280	2,102 2,090 2,080	2,220 2,206 2,192	2,800 1,010 820 1,010 1,300 1,625	1,120 750 680 720 910 1,400	1,670 906 744 888 1,172 1,530

Day		April			May			June			July			August			September	,
Juy	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1 2 3 4 5	2,175 2,200 2,100 2,250 2,320	1,450 1,750 1,800 2,000 1,950	1,774 1,885 2,020 2,288 2,113	2,000 1,950 2,200 2,175 2,000	1,720 1,750 1,900 1,750 1,800	1,813 1,839 2,021 1,998 1,841	2,550 2,600 2,300 2,400 2,350	2,050 2,150 2,000 2,050 2,100	2,296 2,370 2,152 2,192 2,216	NR NR NR NR	NR NR NR NR NR	NR NR NR NR NR	3,600 3,500 3,700 3,750 3,450	3,500 3,100 3,500 3,250 2,800	3,568 3,264 3,566 3,539 3,222	2,580 2,780 2,820 2,460 2,660	2,200 2,380 2,120 1,960 2,000	2,370 2,531 2,362 2,197 2,320
6	2,400	1,850	2,140	2,100	1,710	1,866	2,250	2,150	2,204	NR	NR	NR	3,150	2,760	2,955	2,680	1,800	2,088
7	2,100	1,850	1,945	2,000	1,700	1,838	2,500	2,150	2,323	NR	NR	NR	3,200	2,760	2,983	2,170	1,950	2,048
8	1,900	1,600	1,760	1,900	1,700	1,810	2,500	2,300	2,358	NR	NR	NR	3,200	2,700	2,871	2,250	1,760	2,048
9	1,900	1,525	1,695	2,000	1,800	1,916	2,380	2,100	2,280	NR	NR	NR	3,060	2,860	2,890	2,660	2,310	2,438
10	2,000	1,625	1,814	2,100	1,800	1,933	2,600	2,200	2,350	NR	NR	NR	3,100	2,900	2,957	2,700	1,810	2,150
11	1,950	1,675	1,832	2,200	1,650	2,026	2,400	2,150	2,260	NR	NR	NR	3,300	2,900	3,085	2,310	1,800	2,014
12	1,900	1,550	1,780	2,300	1,850	2,047	2,300	2,050	2,170	NR	NR	NR	3,700	3,300	3,450	2,610	2,160	2,379
13	2,175	1,700	1,903	2,200	1,850	2,010	2,500	2,050	2,255	2,900	2,800	2,830	3,700	3,200	3,364	2,630	1,650	1,936
14	1,900	1,300	1,563	2,000	1,850	1,962	2,500	2,200	2,301	3,000	2,550	2,797	3,560	3,200	3,337	2,160	1,530	1,750
15	1,200	825	963	2,400	1,850	2,118	2,300	2,220	2,255	3,500	2,800	3,087	4,000	3,600	3,775	1,900	1,600	1,685
16	950	800	842	2,260	1,900	2,070	2,750	2,250	2,533	3,050	2,640	2,803	4,140	4,020	4,078	2,100	1,500	1,856
17	1,000	900	940	2,050	1,950	2,012	2,780	2,500	2,594	3,000	2,500	2,710	4,250	2,850	3,626	2,100	1,200	1,602
18	1,030	970	997	2,100	1,900	2,041	2,650	2,400	2,504	2,900	2,100	2,610	3,450	3,100	3,285	1,400	1,250	1,312
19	1,050	800	902	2,200	1,900	2,090	2,550	2,350	2,465	2,670	2,200	2,512	3,550	2,950	3,269	1,450	1,200	1,422
20	1,200	800	935	2,280	1,900	2,115	2,480	2,250	2,386	2,800	2,070	2,334	3,550	2,850	3,027	1,800	1,050	1,493
21	1,350	1,050	1,172	2,200	2,000	2,140	2,800	2,300	2,452	2,500	1,950	2,089	3,400	2,600	3,145	1,850	1,050	1,543
22	1,710	1,250	1,458	2,300	1,900	2,118	2,500	1,450	2,289	3,000	2,500	2,822	2,900	2,400	2,735	1,900	1,220	1,598
23	1,700	1,250	1,404	2,300	2,050	2,122	2,350	1,200	2,087	2,850	2,600	2,737	3,080	2,150	2,540	1,950	1,050	1,570
24	1,550	1,350	1,433	2,000	1,800	1,935	2,300	1,100	2,016	3,150	2,750	2,931	2,850	2,280	2,520	2,000	1,050	1,526
25	1,625	1,450	1,552	2,080	1,800	1,935	2,500	1,060	1,834	3,050	2,500	2,841	2,940	2,060	2,481	1,950	1,250	1,630
26 27 28 29 30 31	2,000 1,900 2,020 2,050 2,175	1,750 1,800 1,800 1,600 1,800	1,868 1,878 1,837 1,860 1,920	2,100 2,000 2,300 2,200 2,200 2,300	1,900 1,850 2,000 2,000 2,050 2,100	1,991 1,967 2,100 2,092 2,144 2,198	2,500 2,700 2,750 2,550 2,500	1,000 2,500 940 1,050 2,400	2,024 2,612 2,238 2,133 2,450	3,150 3,150 2,800 2,600 3,600 3,550	3,000 2,600 2,300 2,300 2,500 3,500	3,072 2,939 2,527 2,499 3,072 3,522	2,900 2,840 2,700 2,900 2,940 2,330	2,100 2,200 2,140 2,600 2,140 2,100	2,586 2,517 2,343 2,717 2,407 2,232	1,800 1,850 1,950 1,800 1,180	1,300 1,250 1,200 1,050 950	1,540 1,545 1,560 1,397 1,074

D2 1016.50 SALINAS RECLAMATION CANAL AT ALISAL S.T.P. (October 1970 through September 1971)

(In Micromhas at 25°C)

Day		October			Navember			December			January			February			March	
Duy	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1 2 3 4 5	NR NR NR NR	NR NR NR NR	NR NR NR NR	975 935 880 1,040 1,640	560 560 700 700 820	772 745 791 847 1,129	807 807 1,510 1,550 1,460	662 85 345 100 1,030	743 306 698 768 1,255	1,803 1,108 1,148 1,403 1,463	833 713 1,073 1,083 1,343	1,675 938 1,103 1,239 1,410	1,630 1,600 1,620 1,490 1,175	1,575 1,140 1,160 940 800	1,595 1,515 1,407 1,214 968	1,470 1,610 1,340 1,590 1,120	820 1,020 740 720 760	1,049 1,299 1,145 1,123 910
6 7 8 9 10	NR NR NR NR	NR NR NR NR	NR NR NR NR	2,950 NR 1,000 1,275 2,000	360 NR 500 540 920	1,175 NR 627 872 1,188	1,520 1,610 1,428 1,228 1,168	1,345 1,050 1,138 1,138 988	1,429 1,352 1,270 1,203 1,065	1,620 1,740 1,790 1,770 1,795	1,458 1,470 1,470 1,470 1,350	1,540 1,553 1,605 1,651 1,554	1,155 1,060 2,000 1,597 1,120	995 1,000 905 810 940	1,063 1,043 1,308 1,132 1,015	1,540 840 2,170 2,140 1,410	700 700 780 860 860	902 758 921 1,061 1,106
11 12 13 14 15	NR NR NR NR	NR NR NR NR	NR NR NR NR	1,930 1,951 1,726 1,351 1,456	936 976 1,116 1,026 946	1,151 1,222 1,247 1,230 1,185	1,038 1,048 1,178 1,196 1,566	963 998 248 556 306	990 1,025 773 924 1,229	1,450 985 1,000 980 1,380	510 295 250 450 830	1,137 603 592 782 928	1,327 1,317 1,297 1,017 1,157	995 1,047 947 847 987	1,122 1,199 1,182 954 1,066	1,350 1,290 1,090 1,110 1,260	870 360 420 410 540	1,130 866 747 906 978
16 17 18 19 20	NR NR NR NR	NR NR NR NR	NR NR NR NR	1,446 1,706 1,396 1,902 1,232	1,046 986 666 812 792	1,178 1,171 1,142 1,183 1,099	521 696 616 706 884	221 221 226 581 329	373 364 403 652 768	905 905 990 980 1,375	785 765 820 880 840	828 818 889 929 1,133	1,237 1,244 1,154 1,024 934	877 1,014 1,094 214 754	1,040 1,099 1,119 572 801	1,460 1,500 1,530 1,530 1,590	1,250 1,430 1,480 1,460 1,540	1,399 1,464 1,500 1,504 1,565
21 22 23 24 25	2,100 2,750 3,310 1,510 950	1,025 600 1,150 890 695	1,337 1,212 1,505 1,106 799	1,657 1,322 1,407 1,552 1,122	1,022 942 892 732 142	1,222 1,004 1,042 1,038 454	499 549 684 699 709	329 464 559 659 684	424 498 636 681 693	1,370 1,260 1,360 1,480 1,440	1,190 1,180 1,255 1,360 1,385	1,252 1,220 1,305 1,410 1,420	1,394 1,194 1,424 1,160 1,040	614 724 944 950 920	789 903 1,046 1,046 991	1,560 1,440 1,430 1,470 1,540	1,280 1,220 1,270 1,220 1,160	1,452 1,350 1,361 1,335 1,387
26 27 28 29 30 31	1,440 1,540 1,490 1,075 1,220 1,040	800 980 900 740 940 870	1,124 1,214 1,090 928 1,039 937	952 1,427 1,102 617 652	162 697 77 157 317	623 1,020 264 267 513	852 747 1,067 1,192 1,472 1,732	497 567 737 832 1,162 1,482	719 676 903 1,043 1,279 1,557	1,430 1,355 1,310 1,430 1,510 1,570	1,330 1,200 1,240 1,305 1,380 1,500	1,392 1,298 1,275 1,379 1,435 1,538	1,310 1,160 1,080	920 480 810	1,010 864 897	1,490 2,640 1,320 1,550 1,840 1,400	430 940 820 970 1,390 1,230	1,126 1,313 1,097 1,332 1,472 1,330

		April			Мау			June			July			August			September	
Day	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1 2 3 4 5	1,440 1,390 1,340 1,390 1,490	1,340 1,290 1,250 870 940	1,386 1,352 1,300 1,080	1,220 1,170 1,180 1,350 1,500	1,090 730 860 1,180 1,330	1,135 925 1,050 1,295 1,409	1,270 1,360 1,340 1,290 1,350	1,130 1,210 1,260 1,240 1,250	1,197 1,263 1,290 1,258 1,291	1,450 1,230 1,260 1,250 1,200	1,190 1,140 1,190 1,120 1,100	1,257 1,193 1,232 1,217 1,133	1,390 1,750 1,600 1,460 1,390	1,030 1,120 1,060 980 1,120	1,092 1,262 1,248 1,145 1,241	1,200 1,150 1,180 1,050 1,130	940 940 1,050 800 830	1,113 1,006 1,100 881 887
6	1,130	330	919	1,430	1,240	1,319	1,300	1,100	1,172	1,520	1,120	1,231	1,440	1,200	1,438	940	860	908
7	1,440	610	1,129	1,320	1,180	1,252	1,340	1,090	1,212	1,470	1,100	1,334	1,380	1,110	1,202	1,250	920	1,027
8	3,240	1,060	1,452	1,350	1,240	1,310	1,340	1,120	1,234	1,470	1,110	1,310	1,240	900	988	1,050	820	931
9	3,640	1,070	1,497	1,350	1,260	1,292	1,630	920	1,164	1,580	1,250	1,420	1,170	920	1,188	1,050	960	991
10	1,240	780	883	1,320	1,230	1,277	1,340	880	1,115	1,530	1,320	1,407	1,210	1,050	1,123	1,300	940	1,047
11	920	720	805	1,300	1,080	1,234	1,330	1,040	1,233	1,360	1,220	1,300	1,500	940	1,117	1,300	1,000	1,186
12	1,840	800	1,180	1,400	700	1,041	1,270	920	1,096	1,610	1,240	1,446	2,100	950	1,237	1,400	920	1,123
13	1,940	250	1,105	1,700	820	1,139	1,150	820	911	1,580	1,360	1,455	1,400	940	1,139	1,300	960	1,164
14	1,140	210	740	1,600	640	988	1,390	1,000	1,194	2,340	1,270	1,490	1,060	900	994	1,220	930	1,132
15	2,000	870	1,280	1,500	620	785	1,370	1,160	1,281	1,820	1,260	1,432	1,030	750	923	1,430	780	1,009
16	2,000	760	1,262	820	590	629	1,270	940	1,127	1,530	1,120	1,341	1,250	940	1,116	1,350	870	1,129
17	1,420	220	785	1,360	650	888	1,250	880	1,083	1,530	1,190	1,276	1,250	900	1,084	1,330	1,190	1,272
18	1,600	590	824	1,040	640	880	1,210	1,070	1,089	1,360	1,270	1,320	1,150	860	955	1,430	1,230	1,274
19	2,300	730	1,267	1,040	950	998	1,270	990	1,139	1,670	1,330	1,402	1,110	900	1,012	1,270	1,150	1,205
20	2,050	1,040	1,392	1,040	900	984	1,220	1,020	1,077	1,540	1,230	1,420	1,150	780	985	1,520	1,270	1,389
21	2,400	1,080	1,457	1,040	960	1,001	1,520	1,060	1,237	1,630	1,410	1,505	1,300	820	967	1,520	1,270	1,422
22	1,710	1,120	1,345	1,140	1,060	1,091	1,470	1,210	1,332	1,750	1,290	1,380	1,050	800	948	1,520	1,240	1,330
23	1,480	1,120	1,353	1,100	860	946	1,310	1,050	1,209	1,350	1,210	1,295	1,400	940	1,183	1,470	1,230	1,370
24	1,600	1,050	1,348	1,080	850	950	1,370	1,180	1,238	1,470	1,100	1,215	1,600	1,080	1,225	1,540	1,260	1,380
25	1,500	710	828	1,190	1,080	1,143	1,480	960	1,185	1,100	960	1,011	1,350	950	1,117	1,480	1,290	1,410
26 27 28 29 30 31	1,130 1,090 1,230 1,210 1,290	790 790 880 930 930	1,002 1,005 1,015 1,091 1,128	1,150 1,160 1,210 1,350 1,260 1,210	1,040 1,070 1,040 1,270 1,210 1,160	1,103 1,107 1,117 1,297 1,227 1,192	1,360 1,400 1,320 1,770 1,310	1,060 1,030 980 1,240 1,220	1,205 1,117 1,171 1,289 1,269	1,870 1,380 1,460 1,350 1,510 1,300	1,010 1,080 1,170 1,050 1,130 980	1,278 1,252 1,264 1,122 1,313 1,088	1,150 1,380 1,250 1,150 1,250 1,250	970 830 960 760 900 1,050	1,051 1,005 1,112 889 1,095 1,112	1,300 1,560 1,580 1,710 1,560	1,210 1,260 1,330 1,440 1,400	1,252 1,419 1,484 1,520 1,484

D2 1325.10 SALINAS RIVER NEAR GONZALES (October 1970 through September 1971)

(In Micromhas at 25°C)

)av		October			Navember			December			January			February			March	
,u y	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	NR	NR	NR	NR	NR	NR	660	310	485	370	370	370	990	950	970			
2	360	300	330	NR	NR	NR	630	170	400	NR	NR	NR	1,070	942	1,006			
3	245	225	235	NR	NR	NR	480	200	340	NR	NR	NR	972	932	952			
4	325	275	300	400	320	360	525	435	480	NR	NR	NR	942	912	927			
5	225	200	212	380	315	348	520	460	490	NR	NR	NR	932	922	927			
5	325	235	280	370	330	350	660	500	580	NR	NR	NR	932	912	922			
7	350	270	310	345	340	342	770	660	715	NR	NR	NR	932	872	902			
8	320	250	285	345	345	345	745	695	720	NR	NR	NR	897	887	892			
9	340	235	287	345	335	340	690	500	595	NR	NR	NR	1,030	990	1,010			
10	NR	NR	NR	345	335	340	700	490	595	NR	NR	NR	1,020	990	1,005		N	
11	NR	NR	NR	350	340	345	700	680	690	NR	NR	NR	1,020	990	1,005		0	
12	NR	NR	NR	NR	NR	NR	700	670	685	924	890	907	1,030	990	1,010			
13	425	265	345	NR	NR	NR	700	680	690	890	470	680	1,040	1,000	1,020	}		
14	460	270	365	NR	NR	NR	720	680	700	850	380	615	1,030	1,010	1,020	,		
15	460	310	385	NR	NR	NR	740	710	725	700	400	550	1,040	1,010	1,025		R	
16	460	275	367	NR	NR	NR	740	720	730	670	600	635	1,280	880	1,080		E	
17	475	380	427	NR	NR	NR	745	715	730	640	600	620	1,638	1,098	1,368			
18	475	455	465	NR	NR	NR	725	695	710	675	645	660	1,588	1,148	1,368		С	
19	470	450	460	NR	NR	NR	700	660	680	810	780	795	1,668	1,128	1,398			
20	465	375	420	NR	NR	NR	940	620	780	850	790	820	1,618	1,148	1,383		0	
21	485	475	480	NR	NR	NR	920	260	590	880	817	848	1,388	1,128	1,258		R	
22	490	480	485	NR	NR	NR	360	260	320	890	830	860	1,398	1,180	1,258			
23	490	460	475	NR	NR	NR	410	300	355	910	870	890	1,198	1,068	1,133		D	
24	495	485	490	NR	NR	NR	315	285	300	1,060	1,030	1,045	1,367	1,207	1,287			
25	515	495	505	NR	NR	NR	360	310	335	1,080	1,070	1,075	1,747	1,257	1,502			
26	510	470	490	* NR	NR.	NR	380	260	320	1,070	930	1,000	1,817	1,397	1,607			
27	NR	NR	NR	NR	NR	NR	340	310	325	950	810	880	1,587	1,327	1,457			
28	NR	NR	NR	NR	NR	NR	445	295	370	860	830	845	NR	NR	NR			
29	NR	NR	NR	390	145	278	530	370	450	1,130	950	1,040						
30	NR	NR	NR	310	155	237	440	380	410	950	890	920						
31	NR	NR	NR				385	365	375	950	910	930						

Day		April			May			June			July			August			Septembe	r
Duy	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1 2 3 4 5	NR NR NR NR	NR NR NR NR	NR NR NR NR	NR NR NR NR	NR NR NR NR NR	NR NR NR NR NR	440 440 540 550 440	420 430 430 430 430	430 435 485 490 435	230 220 220 240 240	210 200 200 200 210	220 210 210 220 225	NR NR 200 300 350	NR NR 140 140 260	NR NR 170 220 305	NR NR NR NR	NR NR NR NR	NR NR NR NR
6 7 8 9	1,060 1,090 1,090 1,070 NR	680 1,050 1,030 670 NR	870 1,070 1,060 870 NR	NR NR NR NR	NR NR NR NR NR	NR NR NR NR	450 450 450 320 350	440 430 280 290 260	445 440 365 305 305	230 230 NR NR NR	230 220 NR NR NR	230 225 NR NR NR	350 380 330 360 350	280 300 300 260 250	315 340 315 310 300	NR NR NR NR	NR NR NR NR	NR NR NR NR
11 12 13 14 15	NR NR NR NR	NR NR NR NR	NR NR NR NR	690 570 580 720 590	550 550 560 520 520	620 560 570 620 555	360 340 300 310 320	260 260 240 250 250	310 300 270 280 285	NR NR 360 400 400	NR NR 320 350 360	NR NR 340 375 380	300 290 310 350 350	250 250 270 310 350	275 270 290 330 350	NR NR NR 340 360	NR NR NR 340 310	NR NR NR 340 335
16 17 18 19	NR NR NR NR	NR NR NR NR	NR NR NR NR	580 560 570 560 560	550 540 530 500 510	565 550 550 530 535	320 310 300 300 270	250 260 250 240 260	285 285 275 270 265	370 350 350 310 290	340 330 260 260 140	355 340 305 285 215	350 350 350 350 350 390	330 290 280 330 330	340 320 315 340 360	310 230 260 220 210	200 200 210 200 200	255 215 235 210 205
21 22 23 24 25	NR NR NR NR	NR NR NR NR	NR NR NR NR	570 520 500 480 460	510 480 480 450 440	540 500 490 465 450	270 270 260 260 260	250 240 240 240 230	260 255 250 250 245	NR NR NR NR	NR NR NR NR	NR NR NR NR	390 390 370 NR NR	390 370 310 NR NR	390 380 340 NR NR	240 240 220 240 250	210 200 200 200 200	225 220 210 220 225
26 27 28 29 30 31	NR NR NR NR	NR NR NR NR NR	NR NR NR NR	450 440 430 430 430 NR	430 420 420 420 410 NR	440 430 425 425 420 NR	250 240 230 240 240	230 210 210 200 210	240 225 220 220 225	NR NR NR NR NR	NR NR NR NR NR	NR NR NR NR NR	NR NR NR NR NR	NR NR NR NR NR	NR NR NR NR NR	250 250 250 250 250 360	250 250 250 250 200	250 250 250 250 250 280

F9 1100.00 RUSSIAN RIVER NEAR GUERNEVILLE (October 1970 through September 1971)

(In Micromhas at 25°C)

Day		October			November			December			January			February			March	
Duy	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1 2 3 4 5	304 300 297 360 310	298 293 291 292 290	301 296 294 325 298	334 339 340 350 278	324 325 326 278 251	329 334 335 325 264	212 226 239 238 137	197 210 226 59 62	206 218 234 140 105	310 310 251 251 242	245 218 230 233 227	270 240 244 245 237	NR NR NR NR NR	NR NR NR NR NR	NR NR NR NR NR	305 311 312 312 311	302 310 311 311 311	303 310 312 312 311
5 7 8 9 10	294 296 300 358 345	289 291 294 300 333	291 294 296 326 340	264 260 300 317 318	201 200 260 300 308	230 230 285 310 313	160 172 180 188 185	137 160 167 159 175	150 166 173 171 180	230 230 228 228 230	226 226 228 226 217	229 229 228 227 224	NR NR NR NR NR	NR NR NR NR NR	NR NR NR NR NR	311 311 312 311 311	311 310 311 311 311	311 310 311 311 311
11 12 13 14 15	398 301 283 288 311	301 277 279 282 288	340 287 281 285 300	308 306 294 300 300	299 286 288 294 298	304 296 292 297 299	191 199 201 203 233	185 190 199 200 174	188 194 200 202 213	225 NR NR 206 201	214 NR NR 199 195	220 NR NR 203 197	NR NR NR NR	NR NR NR NR NR	NR NR NR NR NR	312 311 168 188 187	311 140 130 168 175	311 230 145 180 181
16 17 18 19 20	312 318 319 320 320	310 310 316 312 318	311 312 318 315 319	314 322 322 325 328	300 314 315 322 325	307 317 318 324 326	183 165 165 182 190	141 141 128 152 138	162 153 146 170 165	198 170 179 192 207	89 142 170 179 192	150 160 174 186 199	NR NR NR 310 311	NR NR NR 310 310	NR NR NR 310 310	197 203 NR NR NR	187 193 NR NR NR	192 198 NR NR NR
21 22 23 24 25	354 342 346 341 333	316 301 292 300 297	337 318 310 325 315	330 330 330 330 375	328 330 330 328 314	329 330 330 330 345	152 170 198 212 224	124 152 170 198 212	143 165 180 205 218	212 214 217 217 218	207 212 214 213 213	209 213 216 215 216	311 312 298 211 260	311 295 175 175 211	311 310 200 186 236	NR NR NR NR NR	NR NR NR NR	NR NR NR NR NR
26 27 28 29 30 31	333 337 338 337 338 336	330 331 333 332 332 334	331 334 336 335 335 335	320 256 175 168 197	250 170 102 157 167	282 242 130 162 182	230 240 242 174 230 245	224 230 174 128 130 225	227 235 230 142 190 235	220 221 NR NR NR NR	218 218 NR NR NR NR	220 220 NR NR NR NR	286 299 302	260 285 299	273 292 301	187 160 175 189 291 215	100 110 160 175 189 210	130 135 167 182 195 208

Day		April		-	Мау		ĺ	June			July			August			Septembe	r
Day	Max	Min	Avg	Mcx	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	221	215	218	239	239	239	278	272	275	302	293	299	261	258	260	257	249	252
2	229	221	225	240	239	239	279	276	277	308	291	301	268	260	264	259	252	256
3	232	229	230	240	238	239	279	275	277	308	298	303	267	259	263	255	253	254
4	232	230	232	252	238	245	278	271	275	310	295	304	260	253	258	256	250	254
5	238	232	235	275	252	264	272	268	270	307	297	302	259	249	255	258	253	256
6 7 8 9	240 240 242 242 242	238 239 240 239 231	239 240 240 242 237	290 296 299 298 288	275 290 293 288 262	283 293 297 293 275	270 270 270 270 270 270	268 269 268 269 270	270 270 269 270 270	309 303 301 293 298	297 291 282 277 285	303 298 293 285 289	255 255 252 256 255	250 250 246 250 248	253 252 249 254 252	260 257 255 253 260	253 251 249 248 251	257 254 252 251 257
11	233	227	230	264	260	262	271	267	270	298	281	290	252	248	250	262	248	255
12	241	233	237	267	261	264	267	261	262	293	282	289	251	248	250	250	243	247
13	243	241	242	270	265	267	274	267	273	292	274	283	250	249	250	250	246	249
14	246	228	238	270	264	268	273	271	272	283	270	279	250	248	249	257	243	249
15	250	239	245	271	269	270	272	270	270	280	270	276	251	247	250	255	246	249
16	257	250	254	270	250	260	272	270	271	280	261	273	256	250	253	260	252	256
17	257	250	254	261	250	256	274	268	271	270	258	264	251	243	248	262	257	260
18	250	245	246	261	259	260	270	270	270	262	254	259	250	242	247	262	254	258
19	248	246	247	262	260	261	271	268	269	266	258	262	250	246	248	264	258	261
20	248	247	247	263	261	262	271	267	269	266	254	260	259	250	256	266	254	262
21	250	248	249	271	261	266	270	268	270	260	250	256	259	252	256	260	250	255
22	252	250	250	272	270	271	270	261	266	260	250	255	260	253	257	267	260	264
23	251	250	250	274	270	272	269	262	265	260	250	255	261	257	259	263	260	261
24	250	250	250	277	271	274	278	269	273	260	252	256	258	250	253	266	260	263
25	250	250	250	277	271	274	283	275	279	255	251	253	251	248	249	270	265	267
26 27 28 29 30 31	250 250 250 247 240	250 250 247 240 239	250 250 249 243 240	283 308 279 274 271 273	271 274 271 270 270 270	278 298 275 272 270 271	287 291 307 329 308	279 283 285 293 290	283 287 292 308 299	262 261 260 261 261 260	255 255 253 253 251 254	260 259 257 258 257 256	250 248 252 252 253 251	243 243 247 250 250 248	247 246 250 251 252 250	272 283 283 272 337	263 270 272 268 268	268 276 276 270 290

### PHYTOPLANKTON ANALYSIS OF SURFACE WATER

Station Number	Station	Date		(number		iliter)			Most A	bundani (gen	Phytor	l ank tar		Samp	La!
Station (Number	Signon	Time	Tatal	B1-Gr	Green	Flag	Diatams C P	1	2	3	4	S	6	Jump	La
EO B 735.0 215.0	SAN FRANCISCO BAY AT SAN MATEO BRIDGE (SHIP CHANNEL)	02-17-71 1330	348			220	<u>64</u> 64	F 99 63.2	D 03 18.4	D 66 18.4				5050	505
		03-16-71 1020	582			420	130 32	F 99 72.2	D 03 22.3	D 66 5.5				5050	505
		04-13-71 0920	2432			926	1284 222	F 99 34.1	D 02 26.3	D 03 17.3	D 66 7.8	D 08 6.6	$\frac{\text{F}  54}{4.0}$	5050	505
		06-23-71 0810	1596			1500	<u>96</u> 0	F 99 94.0	D 03 6.0					5050	505
		07-08-71 0820	2944			2400	<u>544</u> 0	F 99 81.5	D 09 16.3	D 08 2.2				5050	505
		08-10-71 1030	644			580	32 32	F 99 90.0	D 03 5.0	D 66 5.0				5050	505
		09-21-71 0915	452			420	<u>32</u>	<u>F 99</u> 92.9	D 02 7.1					5050	505
EO B 736.2 211.6	SAN FRANCISCO BAY AT SAN MATEO BRIDGE	10-21-70 1000	900			740	160 0	<u>F 99</u> 82.2	D 03 17.8					5050	505
		11-17-70 0950	352			320	$\frac{32}{0}$	F 99 90.9	D 03 9.1					5050	505
		12-16-70 0815	574			510	$\frac{64}{0}$	F 99 88.9	D 03					5050	505
	•	01-28-71 0750	352			190	$\frac{130}{32}$	F 99 54.0	D 03 36.9	D 66 9.1				5050	5050
		05-11-71 0810	1152			610	$\frac{320}{222}$	<u>F 99</u> 52.9	D 03 27.8	D 66 16.4	D 65 2.8			5050	505
ЕО В 736.2 212.0	SAN FRANCISCO BAY AT SAN MATEO BRIDGE (PIER 662)	06-23-71 0845	3492			3300	$\frac{32}{160}$	<u>F 99</u> 94.5	D 66 2.8	D 65 1.8	D 03 0.9			5050	505
		07-08-71 0915	1792			1600	$\frac{32}{160}$	F 99 89.3	D 66 8.9	D 09 1.8				5050	505
		08-10-71 1115	1244			1180	$\frac{0}{64}$	F 99 94.9	D 65 5.1					5050	505
		09-21-71 1050	17700			1700	16000 0	D 03 90.4	F 99 9.6					5050	505
ЕО В 748.1 222.4	SAN FRANCISCO BAY WEST OF YERBA BUENA ISLAND	10-21-70 1030	866			834	$\frac{0}{32}$	F 99 88.9	F 03	F 54	D 66 3.7			5050	505
		11-17-70 1100	480			480		<u>F 99</u> 100.0						5050	505
		12-16-70 1030	190			190		F 99 100.0						5050	5050
		01-28-71 0730	608			480	128 0	F 99 78.9	D 15 10.5	D 05 5.3	D 08			5050	5050
		02-17-71 1350			32	444	<u>260</u> 0	F 99 51.6	D 03 35.3	F_56 8.7	<u>G 22</u> 4.4	D 09 Trace		5050	5050
		03-16-71 1005	478			220	$\frac{194}{64}$	F 99 46.0	$\frac{D \ 03}{27.2}$	D 66 13.4	D 02 6.7	D 06 6.7		5050	5050
		04-13-71 0910	1090			580	$\frac{446}{64}$	F 99 53.2	$\frac{\text{D }03}{17.4}$	D 09 14.7	D 08	D 66 5.9	D 02 2.9	5050	5050
		05-11-71 0810	898			580	<u>222</u> 96	F 99 64.6	D 03 21.2	D 66 10.7	D 02			5050	5050
ЕО В 749.2 222.4	SAN FRANCISCO BAY AT TREASURE ISLAND	06-23-71 0700	932			772	160 0	F 99 79.6	D 03	F 54	D 02	D 09 3.4		5050	505
		07-08-71 0640	1392			1296	<u>96</u> 0	F 99 86.2	F 54	D 09 4.6	D 03 2.3	D 08 Trace		5050	5050
		08-10-71 0900	964			610	160 194	F 99 63.3	D 70 13.5	D 03	D 09 6.6	D 66 6.6		5050	5050
		09 <b>-</b> 21-71 0715	894			320	384 190	D 03 35.8	F 99 35.8	D 66 21.2	D 08 7.2			5050	5050
								_							

### PHYTOPLANKTON ANALYSIS OF SURFACE WATER

		Date		Phy (number	toplank per mil	ton liliter)			Most A	bundan (gen	t Phyto	plankton			
Station Number	Station	Time	Total	B1-Gr	Green	Flog	Digtoms C P	1	2	3	4	5	6	Samp	Ļat
EO B 757.7 226.2	SAN PABLO STRAIT WEST OF THE BROTHERS	10-21-70 1120	1022			1022		<u>F 99</u>	F 03					5050	5050
		11-17-70 1145	738		32	610	<u>96</u> 0	F 99 82.7	D 03 13.0	G 02 4.3				5050	5050
		12-16-70 1220	418		64	290	<u>64</u> 0	F 99 69.4	D 03 15.3	G_02 15.3				5050	5050
		01-28-71 1000	288			160	<u>32</u> 96	F 99 55.6	D 66 22.2	D 08 11.1	D 65			5050	5050
		02-17-71 1430	674		32	546	<u>96</u> 0	F 99 66.7	F 56 14.2	D 03 9.5	D 08 4.8	G 02 4.8		5050	5050
		03-16-71 1050	638			350	<u>192</u> 96	<u>F 99</u> 54.9	D 03 25.1	D 66 15.0	D 02 5.0			5050	5050
		04-13-71 1010	2838			1100	1610 128	<u>F 99</u> 38.8	D 03 31.7	D 08 15.9	D 09 9.2	D 66 2.2	D 70 2.2	5050	5050
		05-11-71 1000	1024			800	<u>224</u> 0	F_99 78.2	D 03 15.6	D 08 6.3				5050	5050

	C	od	e	s	į	31	nd		
۱b	b	re	v	i	al	ti	ioi	าร	

Total - Total phytoplankton count per milliliter

Bl-Gr - Blue-Green Algae

Green - Green Algae

Flag - Flagellates

- Centric over Pennate (undifferentiated if no dividing line is shown)

#### Lab and Sampler Agency Codes

5050 - Department of Water Resources

#### Most Abundant Phytoplankton Codes

#### Green Algae Diatoms G 02 Ankistrodemus Centric G 22 Selenastrum D 02 Coscinodiscus D 03 Cyclotella D 05 Melosira (fresh water) D 06 Stephanodiscus D 08 Skeletonema Flagellates | Green F 03 Euglena D 09 Chaetoceros D 15 Thalassiosira Other Pigmented F 54 Dinoflagellates Pennate (Dinophyceae) D 65 Navicula D 66 Nitzschia F 56 Cryptomonas F 99 Unidentified

D 70 Synedra

TABLE D-9

### SALINITY OBSERVATIONS AT BAY AND DELTA STATIONS\*

(Chlorides in Milligrams per Liter)

		T			остові	ER 1970		des in Milligro	, -
Station Number	Station	2	6	10	14	18	22	26	30
						1 .0			30
FO B 803 5 213 2	CARQUINEZ STRAIT AT CROCKETT		9,730 d			8,190	6,730	8,420	
EU B 003.3 213.3	CARQUINEZ STRAIT AT CROCKETT		9,730 d			0,190	0,730	0,420	
FO B 801 9 207 8	CARQUINEZ STRAIT AT MARTINEZ	6.210 a	7,080	6,960 df	7 430	6,710	4,220	6,190	6,310 a
20 2 001.7 207.0	CHACTED BIGHT II INC.	0,-10 a	7,000	0,500 41	7,400	0,720	4,220	0,170	0,510 a
EO B 803.4 202.3	SUISUN BAY AT PORT CHICAGO		4,190 a	4,140 e	3,540	1,880 abd	2,540 a	2,270 abd	
						•	,		
ЕО В 803.0 159.0	SUISUN BAY AT NICHOLS			3,670 e	3,070	2,950	1,900 a	2,180	5,280
B9 D 802.3 153.0	SACRAMENTO RIVER AT PITTSBURG	200 bd	140 abd	190 a		229 bd		62 cd	62
B9 D 804.4 151.0	SACRAMENTO RIVER AT COLLINSVILLE								
Station Number	Station				NOVEMBI	ER 1970			_
		2	6	10	14	18	22	26	30
EO B 803.5 213.3	CARQUINEZ STRAIT AT CROCKETT	9,160	8,520 d		8,790	7,180	6,930	9,950	
EO B 801.9 207.8	CARQUINEZ STRAIT AT MARTINEZ	7,430	6,190 a	5,250	6,560	4,010	3,520 ae	8,170	5,590
EO B 803.4 202.3	SUISUN BAY AT PORT CHICAGO		3,030	2,670	2,960	1,290 bd	4,110	3,860	
	auraini bay an ayanara	4.650	2 200	2 260	2 222	1 500	2 010	2 050	2 020
EO B 803.0 159.0	SUISUN BAY AT NICHOLS	4,650	2,890	3,360	2,820	1,500	2,910	3,850	2,020
RQ D 802 3 153 0	SACRAMENTO RIVER AT PITTSBURG	176	166 abd	113 d	78		38	68	58
By 5 002.3 155.0	SACREMIC RIVER AT TITISBURG	170	100 200	115 4	70		30	00	30
B9 D 804.4 151.0	SACRAMENTO RIVER AT COLLINSVILLE								
					DECEMBE	ER 1970	<del></del>		
Station Number	Station	2	6	10	14	18	22	26	30
					•				
EO B 803.5 213.3	CARQUINEZ STRAIT AT CROCKETT								3,350
EO B 801.9 207.8	CARQUINEZ STRAIT AT MARTINEZ	1,320 a	570			433	155 ae	1,070 a	1,780
EO B 803.4 202.3	SUISUN BAY AT PORT CHICAGO	256	32 a	28	27	29		137	
EO B 803.0 159.0	SUISUN BAY AT NICHOLS		16	30	18	17	20		
B9 D 802.3 153.0	SACRAMENTO RIVER AT PITTSBURG		22	19	18	20 a		26	
B9 D 804.4 151.0	SACRAMENTO RIVER AT COLLINSVILLE								
L									

\*Samples taken at four-day intervals approximately one and one-half hours after high high tide.

a Taken after low high tide.

b Taken on following day.c Taken two days later.

d Taken over one hour off achedule time.

e Taken on preceding day.

f Taken two days earlier.

#### SALINITY OBSERVATIONS AT BAY AND DELTA STATIONS\*

(Chlorides in Milligrams per Liter)

		T			TANTIAR	Y 1971			
Station Number	Station	2	6	10	14	18	22	26	30
		2		10	14	16	22	20	30
								0.100	
EO B 803.5 213.3	CARQUINEZ STRAIT AT CROCKETT		4,630	6,120 d	3,050	4,050	3,000	2,150	3,320
		076			1 = (0	2 020	170	1 070	1.0
EO B 801.9 207.8	CARQUINEZ STRAIT AT MARTINEZ	976	4,440	4,330	1,760	3,030	178 a	1,070	49
no n 002 / 202 2	SUISUN BAY AT PORT CHICAGO		644	73 abd	40 4	41 a	69 0		25 a
EO B 803.4 202.3	SUISUN BAY AT PORT CHICAGO		044	DOB C1	49 a	41 a	00 a		23 a
TO P 903 0 150 0	SUISUN BAY AT NICHOLS								
EO B 603.0 139.0	SCISUR BAT AT ALCHOUS								
RO D 802 3 153 0	SACRAMENTO RIVER AT PITTSBURG	36							26 a
B) D 002.3 133.0	DANGERATO RIVER DI ITIIDDORO	30							
R9 D 804 4 151 0	SACRAMENTO RIVER AT COLLINSVILLE								
5, 5, 604.4, 131.0									
		T			FEBRUAR	Y 1971			
Station Number	Station	2	6	10	14	18	22	26	30
			11			1	<u>.                                    </u>	1	1
PO P 803 5 213 3	CARQUINEZ STRAIT AT CROCKETT	4,180	5,170		5,330 d	4,240	7,710	5,920	
EU B 003.3 213.3	CARGOTALE STRAIT AT CROCKETT	4,100	3,170		J,JJ0 u	4,240	7,720	3,520	
FO R 801 9 207 8	CARQUINEZ STRAIT AT MARTINEZ	425 ad	2,750	1,440	3,740	2 190 cd	3,500 a	2,190 a	
E0 B 601.9 207.0	CARYOTABE STRAIT AT MARTINEE	423 au	2,750	1,440	3,140	2,170 ca	3,500 u	=,170 u	
FO B 803.4 202.3	SUISUN BAY AT PORT CHICAGO	123	32 d	27 abd	5,554	1,280		372 bd	
10 5 003.4 202.3	below and all role onlone	123	3- 4	2, 454	5,554	-,		-,-	
FO B 803.0 159.0	SUISUN BAY AT NICHOLS						2,390	223	
20 2 000.0 127.0	0010000 2012 012 01200020					•	,		
B9 D 802.3 153.0	SACRAMENTO RIVER AT PITTSBURG		24		25	27		22	
B9 D 804.4 151.0	SACRAMENTO RIVER AT COLLINSVILLE								
					MARCH	1971			
Statian Number	Station	2	6	10	14	18	22	26	30
EO B 803.5 213.3	CARQUINEZ STRAIT AT CROCKETT	6,560		9,150	7,440 d	5,960	7,340	9,230	
EO B 801.9 207.8	CARQUINEZ STRAIT AT MARTINEZ	1,820 a	2,130	5,880	5,160		6,070 a	2,940	2,810
EO B 803.4 202.3	SUISUN BAY AT PORT CHICAGO	169 a	1,260 abd	2,560	2,080	61 a	2,260		78
EO B 803.0 159.0	SUISUN BAY AT NICHOLS	982	1,790		1,460	274	1,870	1,050	51
B9 D 802.3 153.0	SACRAMENTO RIVER AT PITTSBURG								
B9 D 804.4 151.0	SACRAMENTO RIVER AT COLLINSVILLE								

<sup>\*</sup>Samples taken at four-day intervals approximately one and one-half hours after high high tide.

a Taken after low high tide.

d Taken over one hour off schedule time.

b Taken on following day.

e Taken on preceding day.

c Taken two days later.

f Taken two days earlier.

### SALINITY OBSERVATIONS AT BAY AND DELTA STATIONS \*

(Chlarides in Milligrams per Liter)

	1.00				APRIL	1971			
Station Number	Station	2	6	10	14	18	22	26	30
EO B 803.5 213.3	CARQUINEZ STRAIT AT CROCKETT	2,790		6,040	5,530 de	2,880	6,220	8,980	3,500
EO B 801.9 207.8	CARQUINEZ STRAIT AT MARTINEZ	635 ae	2,430 a	1,080 a	3,280	30	3,910	4,490	3,080
EO B 803.4 202.3	SUISUN BAY AT PORT CHICAGO	16	111 a	336	68 a	70	221 a		595 a
EO B 803.0 159.0	SUISUN BAY AT NICHOLS	11	15	15	396	14	43	1,660 d	371
B9 D 802.3 153.0	SACRAMENTO RIVER AT PITTSBURG			10 a			10 а		
B9 D 804.4 151.0	SACRAMENTO RIVER AT COLLINSVILLE								
		I			мау	1971			
Station Number	Station	2	6	10	14	18	22	26	30
		1	L						
EO B 803.5 213.3	CARQUINEZ STRAIT AT CROCKETT		7,260	7,150	5,870	6,2 <b>3</b> 0 e	8,760	8,570	6,630
ЕО В 801.9 207.8	CARQUINEZ STRAIT AT MARTINEZ	3,470 e	4,670 a	5,490	1,040 a	2,190 a	4,590	3,320	4,800
EO B 803.4 202.3	SUISUN BAY AT PORT CHICAGO	377 e	2,730	280 d	897	638 e	2,850	2,600	1,150 bd
ЕО В 803.0 159.0	SUISUN BAY AT NICHOLS	251 e	2,670	1,680	518	20 e	325	1,960	172
B9 D 802.3 153.0	SACRAMENTO RIVER AT PITTSBURG		16 a						
B9 D 804.4 151.0	SACRAMENTO RIVER AT COLLINSVILLE								
					JUNE	1971			
Station Number	Station	2	6	10	14	18	22	26	30
EO B 803.5 213.3	CARQUINEZ STRAIT AT CROCKETT	5,920 e	6,520	7,880	5,410		8,640		7,510
EO B 801.9 207.8	CARQUINEZ STRAIT AT MARTINEZ	2,410 a	2,390 a	5,380	1,540	6,460 df		6,070	2,540 a
EO B 803.4 202.3	SUISUN BAY AT PORT CHICAGO	4,350	1,910	376 a					
EO B 803.0 159.0	SUISUN BAY AT MIDDLE POINT	1,570 de	1,940	1,490	224	1,450	1,440	1,550	
B9 D 802.3 153.0	SACRAMENTO RIVER AT PITTSBURG								
B9 D 804.4 151.0	SACRAMENTO RIVER AT COLLINSVILLE								
L									

\*Samples taken at four-day intervals approximately one and one-half hours after high high tide.

a Taken after low high tide.

b Taken on following day.

d Taken over one hour off schedule time.e Taken on preceding day.

c Taken two days later.

f Taken two days earlier.

	•	

Appendix E: GROUND WATER QUALITY



#### INTRODUCTION

This appendix presents ground water quality data collected during the period from October 1, 1970, through September 30, 1971. The data were collected from a number of major ground water sources in the Central Coastal Area in cooperation with other state, local, and federal agencies. During the 1971 water year, 189 wells were sampled in 23 ground water basins and subbasins or subareas.

At the time of field sampling, pH and temperature measurements are normally made. Comments on current conditions are noted in field books which are available in the files of the Department of Water Resources.

Laboratory analyses of ground waters were performed in accordance with "Standard Methods for the Examination of Water and Wastewater", 13th Edition.

The Region and Basin and State Well Numbering Systems are described in Appendix C, "Ground Water Measurements", on page 15. The locations of the ground water basins and subbasins are shown on Figure C-1, pages 17, 18, and 19.

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Number	<u>Name</u>	Page
	NORTH COASTAL REGION 1-00.00	
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2-01.00	Petaluma Valley	103
2-02.00	Napa-Sonoma Valley	
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#### TABLE E-1

#### MINERAL ANALYSES OF GROUND WATER

#### Lab and Sampler Agency Codes

2400 - Santa Clara Valley Water Conservation
District

5000 - U. S. Geological Survey

5050 - Department of Water Resources

5100 - Alameda County Flood Control and Water Conservation District

5114 - Santa Clara County

5216 - City of Gilroy

5401 - Alameda County Water District

5818 - Cook Research Laboratory

#### Abbreviations

Time - Pacific Standard Time on a 24-hour clock

Temp. - Water temperature in degrees Fahrenheit at the time of field sampling

pH - Measure of acidity or alkalinity of water

EC - Electrical conductance in micromhos at 25° C

TDS - Gravimetric determination of total dissolved solids at 180° C

SUM - Total dissolved solids by summation of analyzed constituents

TH - Total hardness

NCH - Noncarbonate hardness - any excess of total hardness over total alkalinity

#### Mineral Constituents

В	-	Boron	K	-	Potassium
Ca	-	Calcium	Mg	-	Magnesium
C1	-	Chloride	Na	-	Sodium
co <sub>3</sub>	-	Carbonate	NO <sub>3</sub>	-	Nitrate
F	-	Fluoride	$SiO_2$	-	Silica
HCO <sub>3</sub>	-	Bicarbonate	so <sub>4</sub>	-	Sulfate

State Well Number		рΗ	EC		Mineral	Canstitue	nts in			ns per Liter valents per Liter			Milli	grams pe	Liter	
Date Lab Time Sampler	Temp.	Lab Field	Lab Field	Ca	Mg	Na	ĸ	CO 3		Reactance Value	NO <sub>3</sub>	F	В	SiO <sub>2</sub>	TDS SUM	TH NCH
NORTH COASTAL REGION 1-	00.00		L.,L							-					<del></del>	
UKIAH VALLEY 1-15.00																
14N/12W-11N01 M 7-27-71 5050 1000 5050	62	8.4 7.1	345 345	27 1.35 35	25 2.03 53	0.48 12		<b>3</b> 0.10	162 2.66	9.3 0.26						169 31
15N/12W-35D01 M 7-27-71 5050 1130 5050	67	7.6 7.1	373 395	38 1.90 47	0.90 22	29 1.26 31		0	218 3.58	16 0.45						140 0
17N/12W-28M01 M 7-27-71 5050 1240 5050	62	7.3 6.1	172 172	13 0.65 36	8.4 0.69 39	0.44 25		0	70 1.15	6.0 0.17						67 10
SANEL VALLEY 1-16.00																
13N/11W-07D01 M 7-27-71 5050 1415 5050	59	7.8 7.0	300 290	21 1.05 31	23 1.85 55	0.48 14		0	1.73 2.84	6.0 0.17						145 3
13N/11W-18D02 M 7-27-71 5050 1455 5050	66	8.2 7.3	618 600	30 1.50 22	58 4.75 68	16 0.70 10		0	322 5.28	19 0.54						313 49
13N/11W-19N01 M 7-27-71 5050 1545 5050	64	7.9 7.3	304 295	25 1.25 38	21 1.75 53	6.8 0.30 9		0	160 2.62	6.2 0.17						150 19
ALEXANDER VALLEY 1-17.00	D															
11N/10W-33G01 M 7-27-71 5050 1645 5050		7.4 6.3	193 185	0.55 31	7.4 0.61 34	14 0.61 35		0	62 1.02	19 0.54						58 7
SANTA ROSA VALLEY 1-18.	00															
SANTA ROSA AREA 1-18.01																
05N/09W-03F01 M 7-28-71 5050 1345 5050	75	8.4 9.2	494 500	0.60 12	3.4 0.28 6	94 4.09 82		0.13	228 3.74	30 0.85						44 0
07N/06W-29P01 M 7-28-71 5050 1030 5050	64	8.1 7.4	233 238	0.75 30	0.85 35	20 0.87 35		0	139 2.28	10 0.28	•					80 0
07N/08W-03L01 M 7-28-71 5050 0800 5050	66	8.2 7.2	505 500	27 1.35 25	20 1.63 31	54 2.35 44		0	273 4.47	24 0.68						149 0
07N/09W-36M01 M 7-28-71 5050 1145 5050	68	8.2 7.4	336 340	28 1.40 40	8.5 0.70 20	32 1.39 40		0	174 2.85	17 0.48						105 0
08N/08W-20Q01 M 7-28-71 5050 0900 5050		8.2 7.3	509 500	5.8 0.29 6	10 0.83 17			0	248 4.06	34 0.96						56 0
ANDERSON VALLEY 1-19.00																
13N/14W-02L01 M 5-10-71 - 1300 5050	63	6.1	175													
13N/14W-11A01 M 5-10-71 - 1220 5050	65	7.1	259													
14N/14W-18RO2 M 5-10-71 - 1345 5050	65	5.9	100													
14N/14W-19B01 M 5-10-71 5050 1400 5050	65	7.7 6.3	388 420	24 1.20 33	17 1.42 39	22 0.96 27	0.9 0.02 1	0	70 1.15 33	9.1 75 0.19 2.11 6 61	0.3		0.2		262	131 74
14N/14W-34G06 M 5-10-71 - 1325 5050	64	7.4	 590													
POINT ARENA 1-20.00																
12N/16W-18K01 M 5-11-71 5050 0730 5050	54	6.8 5.5	421 420					0	9 0.15	60 1.69						97 90

State Well Number Date Lab	Temp.	pH Lab	EC Lob		Mineral (	Constitue	nts in		Milligran Milliequi Percent	valents p	er Liter			Millig	rams per		711
Time Sampler		Field	Field	Ca	Mg	Na	K		нсо3		CI	ΝО3	F	В	S102	TDS SUM	TH NCH
POINT ARENA 1-20.00 (Co	ntinued)	)															
12N/17W-12L01 M 5-11-71 - 0710 5050	57	5.9	122														
13N/16W-31M01 M 5-11-71 - 0810 5050	57	5.9	405														
13N/17W-24D01 M 5-10-71 5050 1530 5050	59	7.5 6.3	<b>3</b> 00 <b>3</b> 10	814 0.42 17	4.1 0.34 13	40 1.74 69	1.3 0.03 1	0	19 0.31 13	9.4 0.20 8	57 1.61 67	18 0.29 12		0.0		184	38 22
13N/17W-25H01 M 5-10-71 - 1600 5050	62	5.9	410														
FORT BRAGG TERRACE 1-21	.00																
17n/17w-30F01 M 5-11-71 - 1020 5050	57	5.7	800														
17 <b>n</b> /17W-30M01 M 5-11-71 5050 0915 5050	54	7.7 6.3	314 315	11 0.55 19	10 0.83 29	32 1.39 48	4.8 0.12 4	0	43 0.70 25	25 0.52 19	44 1.24 45	20 0.32 11		0.1		188	69 34
19N/17W-20N01 M 5-11-71 - 1200 5050	58	5.9	175														
19N/17W-30G01 M 5-11-71 - 1145 5050	57	5.9	280														
19N/17W-30Q01 M 5-11-71 - 1130 5050	56	6.5	358														
SAN FRANCISCO BAY REGIO	N 2-00.0	00															
PETALUMA VALLEY 2-01.00																	
03n/06W-01Q01 M 7-29-71 5050 0930 5050	70	8.3 7.7	1300 1400	33 1.65 12	31 2.53 18	218 9.48 69	4.9 0.12 1	0	586 9.60 69	0.2	148 4.18 <b>3</b> 0	0.16 1		0.2		749	209
03N/06W-18M01 M 7-29-71 5050 0830 5050	61	7.9 6.7	555 560	30 1.50 26	37 3.08 54	27 1.17 20		0	197 3.23		45 1.27						229 68
04N/06W-18E01 M 7-28-71 5050 1730 5050	62	8.3 7.5	991 1010	63 3.14 27	59 4.83 42	81 3.52 31		0	5 <b>32</b> 8. <b>7</b> 2		55 1.55						399 0
04N/06W-21Q01 M 7-29-71 5050 1030 5050	72	8.3 7.9	11 <b>3</b> 0 11 <b>9</b> 0	19 0.95 9	15 1.21 11	2.04 8.87 80		0	374 6.13		175 4.94						1 08 C
05N/07W-26E01 M 7-28-71 5050 1600 5050	66	8.3 7.7	759 760	48 2.40 31	22 1.82 23	83 3.61 46		0	342 5.60		70 1.97						211
05N/07W-34E02 M 7-28-71 5050 1500 5050	65	8.8 8.9	861 875	6.9 0.34 4	3.9 0.32 4	174 7.57 92		19 0.63	372 6.10		72 2.03						33 0
NAPA-SONOMA VALLEY 2-02	.00																
NAPA VALLEY 2-02.01																	
03N/03W-18G01 M 8-05-71 5050 0900 5050	66	7.8 7.3	1130 1010	71 3.54 31	51 4.21 36	89 3.87 33		0	374 6.13		157 4.43						388 81
04N/04W-05C01 M 8-05-71 5050 1140 5050	70	7.8 7.1	300 298	7.8 0.39 14	6.9 0.57 20	44 1.91 66		0	88 1.44		29 0.82						48 0
04N/04W-14C02 M 8-05-71 5050 1700 5050	68	7.7 7.3	1610 1700	101 5.04 32	51 4.21 27	150 6.52 41		0	319 5.23		352 9.93						463 201
05N/04W-09Q02 M 8-05-71 5050 1250 5050	65	8.0 7.3	497 475	24 1.20 24	15 1.24 24	61 2.65 52		0	220 3.60		45 1.27						122

State Well Number		ρН	EC		Mineral		ents in		Milligron	ms per Li	ter			Milli	grams per	Liter	
Date Lab Time Sampler	Temp.	Lob Field	Lab Field	Ca	Mg	No	K	CO 3		Reactons SO <sub>4</sub>		NO <sub>3</sub>	F	В	SiO <sub>2</sub>	TDS SUM	TH NCH
NAPA VALLEY 2-02.01 (Co	ontinued	1)				•											
05N/04W-15E01 M 8-05-71 5050 1045 5050	64	7.8 7.4	402 395	19 0.95 23	14 1.15 27	48 2.09 50		0	203 3.33		30 0.85						105 0
06N/04W-15Q01 M 8-05-71 5050 1340 5050	76	7.9 7.1	243 220	9.6 0.48 20	6.8 0.56 23	32 1.39 57		0	125 2.05		7.6 0.21						52 0
07ท/05พ-06F01 M 8-05-71 5050 1630 5050	65	8.2 7.2	290 285	20 1.00 33	12 1.02 34	22 0.96 32	0.8 0.02 1	0	163 2.67 85	5.1 0.11 3	7.0 0.20 6	0.18 6		0.2		177	101 0
08N/06W-06L05 M 8-05-71 5050 1500 5050	75	8.0 7.3	270 265	6.7 0.33 12	5.7 0.47 16	41 1.78 63	0.26 9	0	136 2.23 82	16 0.33 12	6.2 0.17 6	0.6 0.01 0		0.2		214	40 0
SONOMA VALLEY 2-02.02																	
04N/05W-14D02 M 7-29-71 5050 1130 5050	72	8.2 7.3	965 1000	0.70 7	12 0.98 10	184 8.00 83		0	307 5.03		141 3.98						84 0
05N/05W-28R01 M 7-29-71 5050 1530 5050	68	8.3 8.1	1020 1000	0.70 6	8.8 0.72 7	218 9.48 87	1.3 0.03 0	0	460 7.54 70	36 0.75 7	89 2.51 23	0.8 0.01 0		1.1		615	71 0
05N/06W-12F01 M 7-29-71 5050 1245 5050	64	7.7 6.8	462 465	23 1.15 25	20 1.61 34	44 1.91 41		0	194 3.18		40 1.13						138 0
06n/06W-23M02 M 7-29-71 5050 1330 5050	74	8.2 7.7	496 490	0.80 18	7.8 0.64 14	71 3.09 68		0	1.44 2.36		84 2.37						72 0
06n/06w-26E01 M 7-29-71 5050 1430 5050	72	8.0 8.1	409 410	2.7 0.13 3	0.4 0.03 1	78 3.39 89	10 0.26 7	0	144 2.36 62	2.6 0.05 1	50 1.41 37	0.1 0.00		1.6		296	8
SUISUN-FAIRFIELD VALLE	Y 2-03.	00															
03N/01E-21D01 M 8-02-71 5050 1500 5050	70	8.5 8.1	2540 2500	25 1.25 5	27 2.19 9	492 21.40 86		17 0.57	668 10.95		450 12.69						1 <b>72</b> 0
04n/01E-08F01 M 8-02-71 5050 1600 5050	73	8.1 7.3	97 <b>3</b> 975	48 2.40 24	22 1.80 18	136 5.92 58		0	240 3.93		164 4.63	•					210 14
04N/02W-04D01 M 8-03-71 5050 0845 5050	68	8.3 7.5	1450 1 <b>35</b> 0	75 3.74 21	89 7.31 42	150 6.52 37		0	7.09 11.62		130 3.67						553 0
04N/02W-18M01 M 8-03-71 5050 0945 5050		8.3 7.5	1150 1200	112 5.59 44	39 3.22 25	90 3.92 31		0	4.04 6.62		110 3.10						441 110
05N/01W-25R01 M 8-02-71 5050 1630 5050	65	9.2 7.3	1670 1700	118 5.89 36	32 2.62 16	178 7.74 48		0	252 4.13		418 11.79						426 219
05N/02W-21P03 M 8-03-71 5050 0800 5050	65	8.2 7.2	964 975	96 4.79 45	36 2.92 27	3.00 28		0	442 7.24		64 1.80						386 24
PITTSBURG PLAIN 2-04.0	10																
02N/01W-04Q01 M 8-04-71 5050 1215 5050	67	7.5	<b>377</b> 0 4000			500 21.75					855 24.12						
02N/01W-11R01 M 8-04-71 5050 1130 5050	70	8.1 7.5	923 950	56 2.79 28	52 4.30 44	2.65 27	3.7 0.09	0	360 5.90 58	90 1.87 19	68 1.92 19	0.39 4		0.2		615	355 60
CLAYTON VALLEY 2-05.00	)																
02N/01W-30J01 M 8-04-71 5050 1315 5050	69	7.4 7.2	1030 1025	90 4.49 40	52 4.24 37	61 2.65 23		0	398 6.52		58 1.64						437 111
02N/01W-31D01 M 8-04-71 5050 1345 5050	75	7.6 7.3	1070 1125	86 4.29 38	63 5.20 45	45 1.96 17		0	358 5.87		119 3.36						475 181
02N/02W-26B01 M 8-04-71 5050 1500 5050	68	7.6 7.9	943 975	41 2.05 21	32 2.63 28	111 4.83 51		0	354 5.80		133 3.75						234 0

State Well Number Date Lab	Temp.	pH Lob	EC Lob		Mineral	Constitue	ents in			valents	iter per Liter ice Value			Milli	grams pe		
Time Sampler		Field	Field	Co	Mg	No	К	CO 3	нсо3	SO <sub>4</sub>	CI	и03	F	В	S10 <sub>2</sub>	SUM	NCH NCH
CLAYTON VALLEY 2-05.00	(Contin	ued)															
02N/02W-36J01 M 8-04-71 5050 1415 5050	66	7.7 7.3	1270 1250	69 3.44 26	50 4.09 30	136 5.92 44		0	405 6.64		137 3.86						377 45
YGNACIO VALLEY 2-06.00																	
01N/02W-11N01 M 8-04-71 5050 1545 5050	67	7.9 7.4	1410 1450	93 4.64 31	43 3.55 23	158 6.87 46		0	538 8.82		176 4.96						410 0
02N/02W-35D01 M 8-12-71 5050 0900 5050	65	7.5 7.3	2730 3000	119 5.94 22	127 10.40 38	250 10.88 40	1.2 0.03 0	0	462 7.57 28	450 9.37 34	374 10.55 38	2.2 0.04 0		2.6		1630	818 439
SANTA CLARA VALLEY 2-09	9.00																
EAST BAY AREA BAY 1	PLAIN 2-	09.01															
01s/04w-04A01 M 8-10-71 5050 1230 5100		7.8	1240	85 4.24 33	55 4.55 35	95 4.13 32		0	372 6.10		172 4.85						440 135
02s/03W-28G01 M 8-10-71 5050 0915 5100		8.2	974 	73 3.64 38	26 2.13 22	89 3.87 40		0	276 4.52		153 4.32						289 63
02S/04W-12R01 M 8-10-71 5050 0950 5100	66	8.2	371	23 1.15 31	0.97 26	36 1.57 43		0	164 2.69		36 1.02						106 0
02S/04W-25A01 M 8-10-71 5050 0930 5100	,	8.3	806	45 2.25 28	13 1.05 13	109 4.74 59		0	300 4.92		96 2.71						165 0
03S/02W-07J01 M 8-10-71 5050 0815 5100	64	7.6	1100	106 5.29 44	44 3.58 30	71 3.09 26		0	451 7.39		74 2.09						444 74
03S/02W-32D02 M 8-10-71 5050 0800 5100	74	8.3	791 	36 1.80 21	11 0.86 10	134 5.83 69		0	276 4.52		89 2.51						133 0
EAST BAY AREA ABOVE	E HAYWAR	D FAULT	2-09.0	1													
04S/01W-07R05 M 9-22-71 5050 1200 5401	64	8.0 6.8	1802 1800	168 8.37 46	63 5.20 29	1.2 4.44 25	0.03	0	362 5.93 33	0.87 5	348 9.82 55	78 1.26 7		0.1		1230	679 382
04s/01w-21P06 M 9-29-71 5050 1300 5401	63	8.0 7.4	638 690			46 2.00 31		0	219 3.59		56 1.58						226 47
04S/01W-27B04 M 6-11-71 5050 - 5401		8.0	1080	95 4.75 45	25 2.04 19	87 3.78 36	1.2 0.03 0	0	386 6.33 58	113 2.35 22	58 1.64 15	33 0.53 5		0.7		612	340 23
04s/01w-27K01 M 6-10-71 5050 - 5401		7.8	1540	88 4.37 25	78 6.42 37	152 6.61 38	1.6 0.04 0	0	560 9.18 53	162 3.37 19	154 4.34 25	29 0.47 3		1.0		923	540 81
04s/01w-34R02 M 9-29-71 5050 0905 5401	68	7.7 7.6	627 820			72 3.13 48		0	3.04 4.98		1.16						170 0
EAST BAY AREA - UPPER	AQUI FE	R 2-09.0	1														
04s/01w-18c02 M 9-22-71 5050 0745 5401	66	8.2 7.4	894 970			53 2.30 24		0	313 5.13		65 1.83						360 104
04S/01W-19J07 M 9-29-71 5050 0800 5401	60	7.8 7.4	899 1000			45 1.96 22		0	235 3.85		116 3.27						355 163
04s/01W-33C01 M 9-22-71 5050 1420 5401	63	8.0 7.2	1720 1720			146 6.35 34		0	657 10.77		141 3.98						624 85
04s/02W-14P02 M 5-26-71 5050 5401		7.5	13040	1300 64.77 43	663 54.51 36	738 32.10 21	7.0 0.18 0	0	195 3.20 2	206 4.29 3	5050 142.46 95	0.9 0.01 0		0.7		9840	5970 5810
04S/02W-24F06 M 10-06-71 5050 1430 5401	64	7.4 6.7	6750 7000			173 7.52 11		0	284 4.65		2180 61.50						3080 2847

State Well Number Date Lab	Temp.	pH Lab	EC Lob		Mineral	Canstitue	nts in			valents	iter per Liter ce Value			Milli	grams per		
Time Sampler		Field	Field	Ca	Mg	No	К	CO 3	HCO <sub>3</sub>	SO <sub>4</sub>	CI	ΝО3	F	В	SiO <sub>2</sub>	TDS SUM	TH NCH
EAST BAY AREA LOWER	AQUIFER	2-09.0	)1														
04S/01W-07F02 M 9-21-71 5050 0915 5401	64	8.3 7.1	900 920			56 2.44 26		0	353 <b>5.7</b> 8		59 1.66						357 68
04S/01W-29L12 M 9-29-71 5050 1215 5401	62	7.9 7.3	2230 2400			71 3.09 15		0	19 <b>7</b> 3.23		585 16.50						913 751
04S/01W-30E03 M 6-04-71 5050 5401		7.9	1760	178 8.88 53	51 4.17 25	87 3.78 22	2.2 0.06 0	0	232 3.80 22	47 0.98 6	430 12.13 71	5.4 0.09 1		0.4		1300	653 463
04S/01W-30E03 M 9-29-71 5050 0930 5401	66	7.5	2100 1840								556 15.68						
04S/01W-31B03 M 9-30-71 5050 1000 5401	66	7.6 7.3	3460 3150			90 3.92 12		0	170 2.79		1020 28.77						1460 1320
04S/02W-11Q10 M 9-21-71 5050 1025 5401	66	7.8 7.5	786 8 <b>7</b> 5			43 1.87 23		0	267 4.38		81 2.28						310 91
04S/02W-23F02 M 9-21-71 5050 1230 5401	65	8.0 7.4	1280 1270			52 2.26 18		0	238 3.90		247 6.97						516 320
04S/02W-27L01 M 9-29-71 5050 0830 5401	68	8.4 7.9	595 650			110 4.78 75		0.13	303 4.97		26 0.73						77 0
05S/01W-01R01 M 5-26-71 5050 5401		8.6	762	64 3.17 38	24 1.99 24	74 3.22 38	1.8 0.05 0	0	339 5.56 68	13 0.27 3	76 2.14 26	15 0.24 3		0.1		414	258 0
05S/01W-04D01 M 9-29-71 5050 0930 5401	70	8.5 7.9	615 650			117 5.09 79		5 0.17	278 4.56		36 1.02						66 0
05S/01W-08A03 M 9-21-71 5050 1330 5401	76	8.4 8.0	633 630			125 5.44 81		5 0.17	332 5.44		19 0.54						64 0
05S/01W-17A01 M 5-25-71 5050 5401		8.7	516	7.4 0.37 7	2.6 0.21 4	111 4.83 89	0.6 0.02 0	0	282 4.62 83	29 0.60 11	0.34 6	0.7 0.04 0		0.3		301	29 0
05S/02W-01N01 M 5-25-71 5050 5401		8.7	429 	3.8 0.19 4	2.3 0.19 4	90 3.92 91	0.6 0.02 1	0	220 3.60 80	24 0.50 11	14 0.39 9	0.3		0.2		249	19 0
05S/02W-01N01 M 9-21-71 5050 1300 5401	76	8.2 7.8	431 450			94 4.09 91		0	217 3.56		14 0.39						20 0
05S/02W-14E03 M 10-06-71 5050 0830 5401	66	8.2 8.1	433 490			63 2.74 61		0	229 3 <b>.7</b> 5		16 0.45						89 0
SOUTH BAY AREA 2-09.02																	
05S/01E-31R01 M 6-28-71 5050 2400		8.3	1020			112 4.87 48		0	207 3.39		143 4.03						263 93
06S/01E-17G05 M 6-11-71 5050 2400	72	8.1	619	26 1.28 20	0.42	104 4.52 72	1.4 0.04 1	0	4.36		44 1.24 19	0.0		0.4		344	85 0
06S/01E-21R01 M 6-25-71 5050 2400			650								48 1.35						
06S/01E-22P01 M 6-25-71 5050 2400		8.2	721			75 3.26 44		0	284 4.65		54 1.52						208 0
06S/01W-14E01 M 6-28-71 5050 2400		8.1	505			50 2.18 43		0	170 2.79		37 1.04						146 7
06S/01W-15P01 M 7-14-71 5050 2400	~ *		429								12 0.34						
06S/01W-18P01 M 7-14-71 5050 2400			519								23 0.65						

State Well Number Date Lab	Temp.	pH Lob	EC Lob		Mineral	Constitue	ents in			valents	per Liter			Milli	grams per	Liter	
Time Sampler	Temp.	Field	Field	Со	Mg	No	К	CO 3	HCO <sub>3</sub>		ce Value C I	NO <sub>3</sub>	F	В	S <sub>1</sub> O <sub>2</sub>	TDS SUM	TH NCH
SOUTH BAY AREA 2-09.02	(Contin	ued)															
06S/01W-26D02 M 7-06-71 5050 2400			483								19 0.54						
06S/01W-31F01 M 6-25-71 5050 2400			615								62 1.75						
06S/02W-09Q02 M 6-28-71 5050 2400		8.2	620			50 2.18 32		0	287 4.70		28 0.79						227 0
06S/02W-20N01 M 6-29-71 5050 2400		8.2	463			27 1.17 25		0	190 3.11		33 0.93						178 23
06S/02W-34N01 M 6-28-71 5050 2400			650								37 1.04						
07S/01E-24A01 M 6-25-71 5050 2400			740 								23 0.65						
07S/02E-18B01 M 6-25-71 5050 2400		8.1	1260	92 4.60 33	49 4.02 29	121 5.26 38	1.4 0.04 0	0	541 8.87 64	92 1.92 14	87 2.45 18	36 0.58 4		0.3		753	432 0
07S/02E-20B01 M 6-25-71 5050 2400			822	33	2,	50	v		04	**	42 1.18	,					
07S/02E-33C04 M 6-28-71 5050		8.1	928			56 2.44 24		0	455 7.46		47 1.32						386 13
2400 075/01W-06B01 M 6-28-71 5050			534			24					48 1.35						
2400 08S/01E-04M01 M 6-11-71 5050	64	8.1	491	42 2.08	30 2.46	17 0.74	1.0	0	235 3.85	35 0.73	23 0.65	6.8 0.11 2		0.1		258	227 35
2400 08S/01E-08P03 M 6-14-71 5050		7.8	364	24 1.22	20 1.61	23 1.00	0.6 0.02	0	72 172 2.82	28 0.58	14 0.39	2.5		0.2		182	142 1
2400 08S/01E-09L03 M 6-25-71 5050			457	32	42	26	0		74	15	10 18 0.51	1					
2400 08S/01E-20Q01 M 6-11-71 5050		7.9	486	33 1.64	40 3.26	13 0.56	1.2	0	293 4.80	17 0.35	7.4 0.21	0.3		0.2		257	246 6
2400 08S/01E-27C01 M 6-11-71 5050		7.5	756 	30 39 1.96	65 5.32	31 1.35	0.3 0.01	0	90 365 5.98		21 0.59	23 0.37		0.4		424	364 65
2400 08S/01E-27C02 M 6-28-71 5050		8.5	729 	23	61	28 1.22	0	12 0.40	326 5.34	20	7 21 0.59	4					357 70
2400 08S/01E-27G01 M 6-11-71 5050		7.7	764	37 1.87	63 5.17	36 1.57	0.5 0.01	0	366 6.00		35 0.99	14 0.23		0.5		434	352 52
2400 08S/01E-36M02 M 6-14-71 5050		7.9	2910	6.79	22.53	139 6.05	0.8 0.02	0	70 662 10.85		380 10.72	112 1.81		0.2		2100	1468 924
2400 08S/02E-07F01 M 6-25-71 5050		8.4	545	19	64		0	3 0.10	200 3.28	33	20 0.56	5					228 59
2400 08S/02E-17A01 M 6-28-71 5050			254			21					16 0.45						
2400 08S/01W-15B01 M 6-29-71 5050		8.4	633			27 1.17		2 0.07	226 3.70		32 0.90						274 85
2400 09\$/02E-02C01 M 6-28-71 5050 2400		8.3	537			33 1.44 26		0	184 3.02		23 0.65						209 58

							JL3		ano			IIEN					
State Well Number Date Lab	Temp.	pH Lab	EC Lab		Mineral	Constitu	ents in			ivalents	iter per Liter ice Value			Milli	grams pei		
Time Sampler	,	Field	Field	Ca	М9	Na	К	CO 3	HCO <sub>3</sub>	SO <sub>4</sub>	CI	ΝО3	F	В	SiO <sub>2</sub>	TDS SUM	TH NCH
LIVERMORE VALLEY 2-10.0	0																
02S/02E-35G02 M 8-09-71 5050 1250 5100	71	8.0	3730	100 4.99 14	87 7.12 21	510 22.18 65		0	407 6.67		967 27.28						606 272
03S/01E-08H03 M 8-09-71 5050 0945 5100	62	8.0	1380	76 3.79 26	93 7.68 53	72 3.13 21		0	416 6.82		210 5.92						574 233
03S/01E-11H01 M 8-09-71 5050 1005 5100		8.1	909	53 2.64 27	62 5.13 53	46 2.00 20		0	355 5.82		97 2.74						389 98
03S/01E-15L01 M 8-09-71 5050 1345 5100		8.2	476 	39 1.94 39	19 1.60 32	34 1.48 29		0	198 3.24		32 0.90						177 15
03s/02E-08H01 M 8-10-71 5050 5100		8.3	749 	40 2.00 26	50 4.11 52	39 1.70 22		0	265 4.34		69 1.95						306 89
03s/02E-29D01 M 8-09-71 5050 1020 5100		8.2	687	51 2.55 35	33 2.70 37	46 2.00 28		0	268 4.39		57 1.61						263 43
03S/03E-19C01 M 8-09-71 5050 1230 5100		8.3	1630	36 1.80 11	45 3.71 22	256 11.14 67	2.0 0.05 0	0	540 8.85 51	104 2.16 12	228 6.43 37	0.0		6.3		937	276 0
CENTRAL COASTAL REGION : PAJARO VALLEY 3-02.00	3-00.00																
12S/01E-11N01 M 3-24-71 5050 1130 5050		8.3	607	37 1.85 32	34.7 2.85 49	25 1.09 19		0	155 2.54		74 2.09	38 0.61					235
12S/01E-11N01 M 8-11-71 5050 1000 5050	68	8.4	682	47 2.35 36	37 3.04 46	27 1.17 18		6 0.20	126 2.07		100 2.82	42 0.68					270
12S/01E-25G01 M 3-24-71 5050 5050		8.3	518	23 1.15 22	24.2 1.99 38	48 2.09 40		0	213 3.49		29 0.82	0.0					157
12S/02E-18K03 M 8-11-71 5050 1400 5050	67	8.6	418	48 2.40 53	13 1.07 23	25 1.09 24		7 0.23	198 3.25		14 0.39	0.0	•				175
GILROY-HOLLISTER VALLEY	3-03.00	0															
SOUTH SANTA CLARA COUNT	Y 3-03.	01															
09S/03E-25N03 M 6-14-71 5050 5114		8.3	460 450	2.00 21	21 1.73 36	25 1.09 22	1.3 0.03 1	0	189 3.10 64	21 0.44 9	23 0.65 13	43 0.69 14		0.0		283	187
09S/03E-33G02 M 6-08-71 5050 5114		8.1	482 470	41 2.05 40	21 1.73 34	30 1.30 25	1.1 0.03 1	0	215 3.53 67	40 0.83 16	17 0.48 9	26 0.42 8		0.0		292	190
10S/03E-01E02 M 6-14-71 5050 5114		8.3	553 540	49 2.45 41	34 2.79 47	16 0.70 12	0.8 0.02 0	0	255 4.18 69	37 0.77 13	19 0.54 9	34 0.55 9		0.0		348	263
10S/03E-02K01 M 6-14-71 5050 5114		8.2	380 370	39 1.95 46	22 1.81 42	12 0.52 12		0	198 3.25		10 0.28	14 0.23					188
10S/03E-11G01 M 6-14-71 5050 5114	- ~	7.6	404 390	2.05 46	23 1.89 42	12 0.52 12		0	216 3.54		12 0.34	4.1 0.07					198
10s/03E-13D02 M 6-16-71 5050 5114		8.3	495 490	48 2.40 43	30 2.47 44	16 0.70 13		0	224 3.67		26 0.73	13 0.21					244
10S/03E-14D01 M 6-08-71 5050 5114		8.2	595 590	31 1.55 24	52 4.27 65	16 0.70 11	0.5 0.01 0	0	273 4.48 69	24 0.50 8	40 1.13 17	25 0.40 6		0.0		378	290
10S/03E-23J01 M 6-08-71 5050 5114		8.2	489 470	40 2.00 39	28 2.30 44	20 0.87 17		0	170 2.79		36 1.02	37 0.60					214
10S/03E-26J01 M 6-08-71 5050 5114		8.0	472 450	43 2.15 43	25 2.06 41	18 0.78 16		0	162 2.66		32 0.90	23 0.37					209

South Well Number Control Lob Time   Sempler   Temp.   Plab   EC   Field   F			141	1116	·/ \L	/ \ \ \ \ \ \	· LI		01	anu			11 -11					
South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara County 3-03.01 (Concined)   South Santa Clara Co		Temp.				Mineral	Canstitu	ents in		Milliequ	ivalents	per Liter			Milli	grams per		
108/048-17901	Time Sampler		Field	Field	Со	Mg	Na	К	CO 3				№3	F	В	S102		TH NCH
***   \$\frac{14-71}{0.950}	SOUTH SANTA CLARA COUNTY	3-03.0	l (Cont	inued)														
	6-14-71 5050				2.45	3.62	3.09	0.02	0	5.97	0.42	2.65	0.18		0.1		490	302
6-14-71 5050	6-14-71 5050				2.15	2.55	0.83	0.02	0	3.74	0.60	0.87	0.45		0.0		325	234
6-14-71 5050	6-14-71 5050				2.15	1.73	0.96											192
6-14-71 5050 5114 750 2.74 3.45 2.00 0.03 5.03 0.83 1.52 0.84 5114 8.4 470 44 20 31 6 220 17 11 10  115/04E-03L02 M 8.4 470 44 20 31 6 220 1.75 11 0.48 -14-71 5050 5114 8.3 841 68 60 25 0.5 0 325 90 27 104 6-14-71 5050 5114 8.3 841 68 60 25 0.5 0 325 90 27 104 6-14-71 5050 5114 8.3 430 3.8 22 12 0 555 20 8 17  115/04E-06B01 M 8.3 430 3.8 22 19 0.8 0 197 32 16 18 0.0 0.0 264 6-18-71 5050 5114 8.2 693 63 3.4 3.2 19 0.8 0 197 32 16 18 0.0 0.0 264 1115/04E-1802 N 8.2 693 63 3.4 3.2 0 70 14 10 6 -14-71 5050 5114 680 3.14 3.29 1.26 5114 680 3.14 3.29 1.26 5114 680 3.14 3.29 1.26 5114 5114 680 3.14 3.29 1.26 5114 680 3.14 3.29 1.26 5114 610 3.09 2.71 0.96 5114 5114 610 3.09 2.71 0.96 5114 5114 610 3.09 2.71 0.96 5114 5114 610 3.09 2.71 0.96 5114 5114 610 3.09 2.71 0.96 5114 5114 5114 610 3.09 2.71 0.96 5114 5114 610 3.09 2.71 0.96 5114 5114 5114 5114 5114 610 3.09 2.71 0.96 5114 5114 5114 5114 5114 5114 610 3.09 2.71 0.96 5114 5114 5114 5114 610 3.09 2.71 0.96 5114 5114 5114 5114 5114 5114 5114 5114 5114 5114 5114 5114 5114 5114 5114 5114 5114 5114 5114 5114 5115 5115 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116 5116	6-14-71 5050				1.65	3.04	1.39		0									235
	6-14-71 5050				2.74	3.45	2.00	0.03	0	5.03	0.83	1.52	0.84		0.0		482	309
	6-14-71 5050				2.20	1.64	1.35											193
5114 8.2 693 63 40 29 0 240 22 73 6-14-71 5050 5114 10 6 6 1118/04E-18K02 M 8.2 693 63 40 29 1.26 3.94 0.62 1.18	6-14-71 5050				3.39	4.93	1.09	0.01	0	5.33	1.87	0.76	1.67		0.1		551	415
6-14-71 5050 ' 680 3.14 3.29 1.26 3.94 0.62 1.18  11S/04E-09P05 M 8.4 621 62 33 22 6 247 26 44 6-16-71 5050 610 3.09 2.71 0.96 0.20 4.05 0.73 0.71  11S/04E-16J01 M 7.8 631 67 41 30 1.2 0.0 329 57 29 27 0.09 28 457 2-26-71 5818 3.34 3.37 1.30 0.03 5.40 1.19 0.82 0.43 5216 8.3 806 85 45 29 0 340 30 53 6-16-71 5050 800 4.24 3.70 1.26 5.58 0.85 0.85 5114 8.3 956 39 82 52 1.1 0 449 91 51 13 0.1 548 6-16-71 5050 1070 1.95 6.74 2.26 0.03 7.36 1.89 1.44 0.21 5114 8.3 956 39 82 52 1.1 0 449 91 51 13 0.1 548 6-16-71 5050 1070 1.95 6.74 2.26 0.03 7.36 1.89 1.44 0.21 5114 8.2 744 71 43 25 1.1 0 330 67 26 52 0.1 504 6-08-71 5050 8.2 744 71 43 25 1.1 0 330 67 26 52 0.1 504 6-08-71 5050 7314 8.2 744 71 43 25 1.1 0 330 67 26 52 0.1 504 6-08-71 5050 7314 8.2 744 71 43 25 1.1 0 330 67 26 52 0.1 504 6-08-71 5050 730 3.54 3.53 1.09 0.03 5.41 1.39 0.73 0.84 5114 8.2 744 71 43 25 1.1 0 449 91 51 13 0.1 504 6-08-71 5050 730 3.54 3.53 1.09 0.03 5.41 1.39 0.73 0.84 5114 5114 8.2 744 71 43 25 1.1 0 449 91 51 13 0.84 5114 8.2 744 71 43 25 1.1 0 300 67 26 52 0.1 504 6-08-71 5050 730 3.54 3.53 1.09 0.03 5.41 1.39 0.73 0.84 5114 8.2 744 71 43 25 1.1 0 449 91 51 13 0.84 5114 8.2 744 71 43 25 1.1 0 449 91 51 13 0.84 5114 8.2 744 71 43 25 1.1 0 449 91 51 13 0.84 5114 8.2 744 71 43 25 1.1 0 449 91 51 13 0.84 5114 8.2 744 71 43 25 1.1 0 449 91 51 13 0.84 5114 8.2 744 71 43 25 1.1 0 449 91 51 13 0.84 5114 8.2 744 71 43 25 1.1 0 449 91 51 13 0.84 5114 8.2 744 71 43 25 1.1 0 65 16 9 10 10 10 10 10 10 10 10 10 10 10 10 10	6-08-71 5050				1.90	1.81	0.83	0.02	0	3.23	0.67	0.45	0.29		0.0		264	186
6-16-71 5050	6-14-71 5050				3.14	3.29	1.26		0									320
2-26-71	6-16-71 5050				3.09	2.71	0.96											290
6-16-71 5050 800 4.24 3.70 1.26 5.58 0.85 0.85  118/04E-16L01 M 8.3 956 39 82 52 1.1 0 449 91 51 13 0.1 548 6-16-71 5050 1070 1.95 6.74 2.26 0.03 7.36 1.89 1.44 0.21 5114 1070 1.95 6.74 2.26 0.03 7.36 1.89 1.44 0.21 118/04E-21B02 M 8.2 744 71 43 25 1.1 0 330 67 26 52 0.1 504 6-08-71 5050 730 3.54 3.53 1.09 0.03 5.41 1.39 0.73 0.84 5114 5114 70 655 16 9 10  SAN BENITO COUNTY 3-03.02  128/05E-28L03 M 63 8.1 1620 76 101 171 4.7 0 695 239 106 2.1 1.1 985 12-02-70 5050 7.2 1400 3.79 8.30 7.44 0.12 11.40 4.97 2.99 0.03 1415 5050 70 106 168 4.4 0 690 236 107 1.8 10.0 1080 2-17-71 5050 7.3 520 3.49 8.71 7.31 0.11 11.32 4.91 3.02 0.03 5050 7.3 520 3.49 8.71 7.31 0.11 11.32 4.91 3.02 0.03 5050 18 44 37 1 59 25 16 0	2-26-71 5818				3.34	3.37	1.30	0.03	0.0	5.40	1.19	0.82	0.43		0.09	28	457	335
6-16-71 5050 1070 1.95 6.74 2.26 0.03 7.36 1.89 1.44 0.21 5114 1070 1.95 6.74 2.26 0.03 7.36 1.89 1.44 0.21  11s/04E-21B02 M 8.2 744 71 43 25 1.1 0 330 67 26 52 0.1 504 6-08-71 5050 730 3.54 3.53 1.09 0.03 5.41 1.39 0.73 0.84 5114 5114 5114 65 16 9 10  SAN BENITO COUNTY 3-03.02  12s/05E-28L03 M 63 8.1 1620 76 101 171 4.7 0 695 239 106 2.1 1.1 985 12-02-70 5050 7.2 1400 3.79 8.30 7.44 0.12 11.40 4.97 2.99 0.03 1415 5050 19 42 38 1 59 26 15 0  12s/05E-28L03 M 63 8.2 1650 70 106 168 4.4 0 690 236 107 1.8 10.0 1080 2-17-71 5050 7.3 520 3.49 8.71 7.31 0.11 11.32 4.91 3.02 0.03 5050 18 44 37 1 59 25 16 0	6-16-71 5050				4.24	3.70	1.26		0									398
6-08-71 5050 730 3.54 3.53 1.09 0.03 5.41 1.39 0.73 0.84 5114 5114 5114 5114 5114 5114 5114	6-16-71 5050	••			1.95	6.74	2.26	0.03	0	7.36	1.89	1.44	0.21		0.1		548	436
12S/05E-28L03 M 63 8.1 1620 76 101 171 4.7 0 695 239 106 2.1 1.1 985 12-02-70 5050 7.2 1400 3.79 8.30 7.44 0.12 11.40 4.97 2.99 0.03 1415 5050 19 42 38 1 59 26 15 0 12S/05E-28L03 M 63 8.2 1650 70 106 168 4.4 0 690 236 107 1.8 10.0 1080 2-17-71 5050 7.3 520 3.49 8.71 7.31 0.11 11.32 4.91 3.02 0.03 5050 18 44 37 1 59 25 16 0	6-08-71 5050				3.54	3.53	1.09	0.03	0	5.41	1.39	0.73	0.84		0.1		504	3 53
12-02-70 5050 7.2 1400 3.79 8.30 7.44 0.12 11.40 4.97 2.99 0.03 1415 5050 19 42 38 1 59 26 15 0 12S/05E-28L03 M 63 8.2 1650 70 106 168 4.4 0 690 236 107 1.8 10.0 1080 2-17-71 5050 7.3 520 3.49 8.71 7.31 0.11 11.32 4.91 3.02 0.03 5050 18 44 37 1 59 25 16 0	SAN BENITO COUNTY 3-03.0	12																
2-17-71 5050 7.3 520 3.49 8.71 7.31 0.11 11.32 4.91 3.02 0.03 5050 18 44 37 1 59 25 16 0	12-02-70 5050	63			3.79	8.30	7.44	0.12	0	11.40	4.97	2.99	0.03		1.1		985	606
	2-17-71 5050	63			3.49	8.71	7.31	0.11	0	11.32	4.91	3.02	0.03		10.0		1080	610
12\$/05E-28L03 M      7.7     1740     96     102     166     0     747     240     128     1.0     1120       8-31-71     5050      4.79     8.38     7.22     12.25     4.99     3.61     0.02       0820     5050     24     41     35     59     24     17     0	8-31-71 5050				4.79	8.38	7.22		0	12.25	4.99	3.61	0.02				1120	659
12S/05E-28N01 M 63 8.2 1560 68 99 155 5.3 0 556 303 103 2.6 1.0 975 12-02-70 5050 7.2 1450 3.39 8.14 6.74 0.14 9.12 6.30 2.90 0.04 1440 5050 18 44 37 1 50 34 16 0	12-02-70 5050	63			3.39	8.14	6.74	0.14	0	9.12	6.30	2.90	0.04		1.0		975	578
12\$/05E-28N01 M 7.6 1780 94 110 174 0 603 336 122 26 827 8-31-71 5050 4.69 9.04 7.57 9.89 6.99 3.44 0.42 0850 5050 22 42 36 48 34 16 2	8-31-71 5050				4.69	9.04	7.57		0	9.89	6.99	3.44	0.42				827	686
12\$/05E-28P01 M 7.6 1520 82 93 144 0 633 226 103 4.4 982 8-31-71 5050 4.09 7.64 6.26 10.38 4.70 2.90 0.07 0740 5050 23 42 35 58 26 16 0	8-31-71 5050				4.09	7.64	6.26		0	10.38	4.70	2.90	0.07				982	588
12S/05E-29J01 M 57 8.3 2520 38 65.6 444 0 474 378 385 19 12-02-70 5050 7.5 2350 1.90 5.39 19.31 7.77 7.86 10.86 0.31 1515 5050 7 20 73 29 29 41 1	12-02-70 5050	57			1.90	5.39	19.31		0	7.77	7.86	10.86	0.31					365
12S/05E-33A01 M 52 7.8 2200 92 143.2 268 0 1270 165 126 1.6 12-03-70 5050 7.3 2000 4.59 11.77 11.66 20.83 3.43 3.55 0.03 1330 5050 16 42 42 75 12 13 0	12-03-70 5050	52			4.59	11.77	11.66		0	20.83	3.43	3.55	0.03					819

State Well Number Date Lab	Temp.	pH Lob	EC Lab		Mineral	Constitue	nts in			ivalents	iter per Liter ice Value			Milli	grom sper	r Liter TDS	TH
Time Sampler		Field	Field	Со	Mg	No	К	CO 3	HCO3	SO <sub>4</sub>	CI	и03	F	В	SiO <sub>2</sub>	SUM	NCH
SAN BENITO COUNTY 3-03.0	)2 <b>(</b> Cont	inued)															
12S/05E-33C01 M 8-31-71 5050 0730 5050		7.6	1360	68 3.39 22	80 6.58 42	132 5.74 36		0	575 9.43 60	188 3.91 25	80 2.26 15	0.6 0.01 0				895	500
12S/05E-33D04 M 12-02-70 5050 0910 5050	65	7.8 7.8	2050 1950	58 2.89 12	105 8.63 37	278 12.09 51		0	677 11.10 47	378 7.86 33	160 4.51 19	16 0.26 1					577
12S/05E-34N01 M 12-02-70 5050 5050	58	8.2 8.0	1130 1100	46 2.30 19	68.8 5.66 46	97 4.22 35		0	387 6.35 50	206 4.28 33	75 2.12 17	0.0					398
SALINAS VALLEY 3-04.00																	
PRESSURE AREA 3-04.01																	
13S/02E-19J01 M 3-24-71 5050 1035 5050		8.3	1230	89 4.44 35	40.8 3.35 27	111 4.83 38		0	221 3.62		307 8.66	1.6					390
13S/02E-23L01 M 3-24-71 5050 1435 5050		8.3	662	22 1.10 19	20.9 1.72 29	70 3.04 52		0	146 2.39		106 2.99	7.6 0.12					141
13S/02E-29F01 M 8-10-71 5050 1355 5050	68	8.6	544 	36 1.80 31	16 1.32 23	61 2.65 46		8 0.27	188 3.08		65 1.83	1.7 0.03					146
13S/02E-30A01 M 8-10-71 5050 1345 5050	71	8.5	1640	116 5.79 37	47 3.86 24	142 6.18 39		8 0.27	173 2.84		397 11.20	18 0.29					482
14S/02E-02C01 M 8-12-71 5050 1025 5050	63	8.6	468 	50 2.50 47	14 1.15 22	37 1.61 31		8 0.27	230 3.77		30 0.85	0.8					181
14S/02E-05P02 M 8-11-71 5050 1105 5050	74	8.5	646	52 2.59 40	16 1.32 20	59 2.57 40		8 0.27	169 2.77		70 1.97	3.5 0.06					194
14S/02E-14N01 M 3-25-71 5050 1455 5050		8.3	611	48 2.40 39	16.8 1.38 23	53 2.31 38		0	209 3.43		63 1.78	3.7 0.06					189
14S/02E-14N01 M 8-11-71 5050 0840 5050	64	8.1	615	53 2.64 42	18 1.48 23	51 2.22 35		0	205 3.36 52	45 0.94 15	72 2.03 32	4.1 ~ 0.07					208
14S/02E-22P02 M 3-24-71 5050 1450 5050	60	8.3 7.3	619 675	50 2.50 41	15.1 1.24 20	54 2.35 39		0	173 2.84		44 1.24	0.0					187
14S/02E-25D01 M 3-24-71 5050 1545 5050	62	8.3 7.8	687 720	66 3.29 45	19.2 1.58 22	54 2.35 33		0	192 3.15		47 1.33	1.9					244
14S/02E-25F01 M 3-24-71 5050 1610 5050	58	8.2 7.6	1570 1550	124 6.19 38	48.9 4.02 25	136 5.92 37		0	310 5.08 29	238 4.95 29	250 7.05 41	13 0.21 1					511
14S/02E-26C01 M 3-25-71 5050 1445 5050	61	8.3 7.2	912 950	90 4.49 46	30.7 2.52 26	63 2.74 28		0	217 3.56		101 2.85	2.6 0.04					351
14S/02E-26C01 M 8-11-71 5050 1600 5050	66	8.1	729 	75 3.74 49	20 1.64 21	52 2.26 30		0	198 3.25		70 1.97	2.0 0.03					270
15S/02E-02Q01 M 8-11-71 5050 1415 5050	66	8.1	1470	176 8.78 52	54 4.44 26	86 3.74 22		0	532 8.72		109 3.07	0.0					660
15S/02E-12C01 M 3-25-71 5050 1040 5050	60	8.3 7.3	940 875	101 5.04 49	35.4 2.91 29	51 2.22 22		0	272 4.46		75 2.12	0.0					398
15S/02E-12C01 M 8-11-71 5050 1300 5050	68	8.2	1030	119 5.94 52	41 3.37 29	51 2.22 19		0	295 4.84		90 2.54	0.3					468
SEASIDE AREA 3-04.08																	
14S/01E-24K01 M 10-09-70 5050 0700 5050		7.7	743 730	49 2.45 36	18.6 1.53 22	67 2.91 42		0	97 1.59		122 3.44	77 1.24					199

State Well Number Date Lab	Temp.	pH Lab	EC Lab		Mineral	Constitu	ents in			ivalents	iter per Liter ce Value			Milli	grams pe		
Time Sampler		Field	Field	Со	Mg	No	К	CO 3	HCO <sub>3</sub>	SO <sub>4</sub>	CI	NO <sub>3</sub>	F	В	S <sub>1</sub> O <sub>2</sub>	TDS SUM	TH NCF
SEASIDE AREA 3-04.08 (	Continued	i)															
14S/01E-24Q04 M 10-09-70 5050 1000 5050		7.3	1390 1350	71 3.54 27	52.7 4.33 34	114 4.96 39		0	19 0.31		226 6.37	262 4.22					394
14S/01E-25L01 M 10-09-70 5050 0730 5050		7.7	472 460	0.85 20	13.0 1.07 26	51 2.22 54		0	40 0.66		105 2.96	21 0.34					9
14S/01E-25P01 M 10-09-70 5050 0900 5050		7.5	602 590	33 1.65 30	15.7 1.29 24	57 2.48 46		0	66 1.08		96 2.71	74 1.19					14
14S/01E-25P02 M 10-09-70 5050 0840 5050		7.5	550 530	1.10 23	17.3 1.42 30	52 2.26 47		0	30 0.49		102 2.88	54 0.87					12
MISCELLANEOUS AREA 3-8	0.00																
19S/01E-08C01 M 3-04-71 5050 5050		7.8	743	34 1.70 30	20 1.64 29	54 2.35 41	0.6 0.02 0	0	154 2.53 45	36 0.75 14	74 2.09 37	0.21 4		0.0		313	16

TABLE E-2
TRACE ELEMENT ANALYSES OF GROUND WATER

	Date	Co	nstitue	ents in N	Milligran	ns per Lite	er
State Well Number	Sampled	Arsenic	Bar- ium	Cad- mium	Lead	Mer- cury	Sele- nium
SAN FRANCISCO BAY	REGION 2	-00.00					
SANTA CLARA VALLE	Y 2-09.00	)					
EAST BAY AREA 2-0	9.01						
04S/01W-27B04M	6-11-71	0.00	0.1	0.00	0.00	0.0004	0.01
04S/01W-27F01M	6-11-71	0.00	0.2	0.00	0.00	0.0000	0.00
04S/01W-27K01M	6-10-71	0.00	0.1	0.00	0.00	0.0000	0.00
04s/01w-30E03M	6-04-71	0.00	0.3	0.00	0.00	0.0000	0.00
04S/02W-14P02M	5-26-71	0.00	0.5	0.00	0.00	0.0000	0.01
04S/03W-13B02M	5-26-71	0.00	0.1	0.00	0.00	0.0001	0.00
05S/01W-01R01M	5-26-71	0.00	0.2	0.00	0.00	0.0000	0.00
05S/01W-17A01M	5-25-71	0.00	0.1	0.00	0.00	0.0000	0.00
05s/02w-01n01m	5-25-71	0.00	0.2	0.00	0.00	0.0000	0.00
SOUTH BAY AREA 2-6	09.02						
06S/01E-17G05M	6-11-71	0.00	0.1	0.00	0.00	0.0000	0.00
08S/01E-04M01M	6-11-71	0.00	0.1	0.00	0.00	0.0000	0.00
08S/01E-08P03M	6-14-71	0.00	0.0	0.00	0.00	0.0000	0.00
08S/01E-20Q01M	6-11-71	0.00	0.1	0.00	0.00	0.0001	0.01
08S/01E-27C01M	6-11-71	0.00	0.1	0.00	0.00	0.0000	0.00
08S/01E-27G01M	6-11-71	0.00	0.1	0.00	0.00	0.0000	0.00
08S/01E-36M02M	6-14-71	0.00	0.1	0.00	0.00	0.0000	0.00

Appendix F: WASTE WATER



#### INTRODUCTION

This appendix contains data on the volume and location of waste water discharged by 81 cooperating dischargers within the jurisdiction of the California Regional Water Quality Control Board, San Francisco Bay Region, and located in the Central Coastal Area. Data are presented for the period October 1, 1970, through September 30, 1971.

During the 1971 water year, the 81 dischargers released 880 thousand acre-feet of water, or an average of 786 million gallons per day, at 96 disposal plants.

TABLE F-1

QUANTITY OF WASTE WATER DISCHARGED,
CENTRAL COASTAL AREA, 1971 WATER YEAR

Discharger	Average Discharge Rate (mg/d)	Volume Discharged (acre-feet)	Place of Discharge for Waste Water
Allied Chemical Corporation			
Nichols Plant Richmond Plant	3.4 <b>*</b> 0.1 <b>*</b>	3,808* 112*	Suisun Bay Castro Creek
Alviso, City of	0.2*	224*	San Francisco Bay
Basalt Rock Company			
Napa	0.2*	224*	Napa River
Petaluma	0.04*	45*	Petaluma River
San Rafael	0.6*	672*	San Pablo Strait
Benicia, City of	1.0	1,120	Carquinez Strait
Burlingame, City of	3.0*	3,360*	San Francisco Bay
C & H Sugar Refinery	25.6	28,676	Carquinez Strait
Calistoga, City of	0.3	336	Napa River
Central Contra Costa Sanitary District	24.1*	26,995	Suisun Bay
Chevron Chemical Company, Richmond	0.2	224	San Pablo Bay
Colgate Palmolive Company	0.9*	1,008*	San Francisco Bay
Concord, City of	5.1	5,713	Walnut Creek
Contra Costa County Sanitation District No. 7A	0.9	1,008	Suisun Bay
Crockett-Valona Sanitary District	0.3	336	Carquinez Strait
Dow Chemical Company, Western Division	24.4*	27,331*	New York Slough
East Bay Municipal Utility District, Special District No. 1	84.1	94,204	San Francisco Bay
Estero Municipal Improvement District	1.3*	1,456*	San Francisco Bay
Fairfield-Suisun Sewer District	4.2	4,705	Suisun Slough
Granada Sanitary District	0.2	224	Pacific Ocean
Guadalupe Valley Municipal Improvement District	0.2*	224*	Guadalupe Canal
Half Moon Bay, City of	0.3*	336*	Pacific Ocean
Hayward, City of	11.9	13,330	San Francisco Bay
Hercules, Incorporated	1.6	1,792	San Pablo Bay and Land
Humble Oil and Refining Company	3.4	3,808	Suisun Bay

#### TABLE F-1 (Continued)

## QUANTITY OF WASTE WATER DISCHARGED, CENTRAL COASTAL AREA, 1971 WATER YEAR

Discharger	Average Discharge Rate (mg/d)	Volume Discharged (acre-feet)	Place of Discharge for Waste Water
Las Gallinas Valley Sanitary District	2.3	2,576	Miller Creek
Livermore, City of	3.2	3,584	Arroya Las Positas
Los Altos, City of	2.3	2,576	Mountain View Slough
Marin County Sanitary District No. 1	3.4	3,808	Corte Madera Creek
Marin County Sanitary District No. 6			
Ignacio Plant Novato Plant	0.7 2.3	784 2,576	Novato Creek Novato Creek
Martinez, City of	1.8*	2,016*	Carquinez Strait
McGraw Hill Company	0.02	22	Pond
Menlo Park Sanitary District	6.0*	6,721*	West Point Slough
Merck & Company, Inc.	5.1*	5,713*	San Francisco Bay
Mill Valley, City of	2.3	2,576	Richardson Bay
Millbrae, City of	2.4	2,688	San Francisco Bay
Milpitas Sanitary District	2.9	3,248	Coyote Creek
Montara Sanitary District	0.2	224	Pacific Ocean
Mountain View, City of	7.4	8,289	Mountain View Slough
Mountain View Sanitary District	0.9	1,008	Carquinez Strait
Napa County Sanitation District	5.4	6,049	Napa River
North San Mateo County Sanitatio District	n 4.0	4,481	Pacific Ocean
Oro Loma Sanitary District	13.6	15,234	San Francisco Bay
Pacific Union College	0.2	224	Conn Creek and Land
Pacifica, City of			
Linda Mar Plant Sharp Park Plant	1.4 1.0	1,568 1,120	Pacific Ocean Pacific Ocean
Palo Alto, City of	13.3	14,898	San Francisco Bay
Petaluma, City of	2.7	3,024	Petaluma River
Phillips Petroleum Company, Avon Refinery	14.3	16,018	Suisun Bay
Pinole, City of	0.9	1,008	San Pablo Bay

#### TABLE F-1 (Continued)

## QUANTITY OF WASTE WATER DISCHARGED, CENTRAL COASTAL AREA, 1971 WATER YEAR

Discharger	Average Discharge Rate (mg/d)	Volume Discharged (acre-feet)	Place of Discharge for Waste Water
Pittsburg, City of			
Camp Stoneman Plant Montezuma Plant	0.9 1.3	1,008 1,456	New York Slough Sacramento River
Pleasanton, City of	1.1*	1,232*	Land
Redwood City, City of **	6.5*	7,281*	Redwood Creek
Richardson Bay Sanitary District	0.2	224*	Raccoon Strait
Richmond, City of	8.1	9,073	San Francisco Bay
Rodeo Sanitary District	0.6*	672*	San Pablo Bay
St. Helena, City of	0.4	448	Napa River
San Carlos-Belmont, Cities of **	3.3	3,696	Steinberger Slough
San Francisco, City and County of			
Juvenile Court - Log Cabin Ranch School North Point Plant Richmond-Sunset Plant Southeast Plant	0.02 65.5 21.0 22.6	22 73,369 23,523 25,315	Land San Francisco Bay Pacific Ocean Islais Creek
San Francisco International Airport	0.9*	1,008*	San Francisco Bay
San Jose, City of	81.0	90,731	Coyote Creek
San Leandro, City of	7.1	7,953	San Francisco Bay
San Mateo, City of	11.8*	13,218*	San Francisco Bay
San Mateo, County of			
Boys Ranch Honor Ranch No. 1	0.005 0.01	6 11	Pond Land
San Pablo Sanitary District			
San Pablo Plant Tara Hills Plant	7.9 1.2	8,849 1,344	San Pablo Bay San Pablo Bay
San Quentin Prison	0.6	672	San Francisco Bay
San Rafael Sanitation District			
Main Plant Marin Bay Plant	2.8 0.1	3,136 112	San Francisco Bay San Francisco Bay
Sausalito-Marin City Sanitary District	1.9	2,128	San Francisco Bay
Sequoia Refining Corporation	0.1	112	San Pablo Bay

#### TABLE F-1 (Continued)

## QUANTITY OF WASTE WATER DISCHARGED, CENTRAL COASTAL AREA, 1971 WATER YEAR

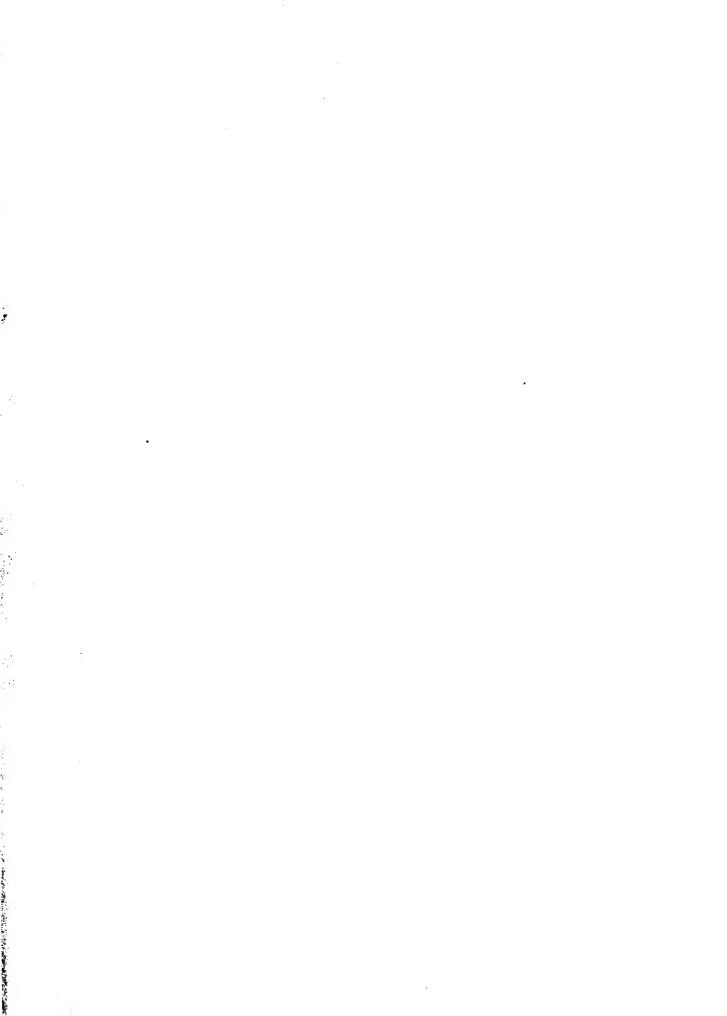
Discharger	Average Discharge Rate (mg/d)	Volume Discharged (acre-feet)	Place of Discharge for Waste Water
Shell Chemical Company,			
Pittsburg Plant	6.4	7,169	Suisun Bay
Shell Oil Company	4.5*	5,041*	Carquinez Strait
Sonoma Valley Sanitation District	2.1	2,352	Schell Slough
South San Francisco-San Bruno, Cities of	7.8*	8,737*	San Francisco Bay
Standard Oil Company, Western Operations, Richmond Refinery	114.0	127,696	San Pablo Bay
Stauffer Chemical Company			
Martinez Plant Richmond Plant	0.1 1.3*	112 1,456*	Carquinez Strait San Francisco Bay
Strategic Consolidated Sewerage Authority **	1.9	2,128	San Francisco Bay
Sunnyvale, City of	14.4	16,130	Guadalupe River
U. S. Steel Corporation, Pittsburg Plant	17.8	19,938	New York Slough
U. S. Veterans Administration Hospital, Livermore	0.1	112	Arroyo Valle
Union Oil Company, Oleum Refinery	48.9	54,775	San Pablo Bay
Union Sanitary District			
Newark Plant No. 1	5.5	6,161	Newark Slough
Irvington Plant No. 2 Alvarado Plant No. 3	5.1 2.2	5,713	Mud Slough Alameda Creek
		2,464	
United Technology Center	0.05	56	Land and Pond
Vallejo Sanitation and Flood Control District	6.9	7,729	Carquinez Strait
Valley Community Services District	2.4	2,688	Alamo Canal
TOTAL	785.945	880,360	

<sup>\*</sup> Estimated

<sup>\*\*</sup> The City of Redwood City and Cities of San Carlos-Belmont plants combined on August 1, 1971, to form the Strategic Consolidated Sewerage Authority.



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